



SOIL-MAT ENGINEERS & CONSULTANTS LTD.

401 Grays Road · Hamilton, ON · L8E 2Z3

🌐 www.soil-mat.ca ✉ info@soil-mat.ca ☎ 905.318.7440 / 800.243.1922 (toll free) 📠 905.318.7455

PROJECT No.: SM 301951-G

August 19, 2024

CACHET DEVELOPMENTS
361 CONNIE CRESCENT, SUITE 200
Concord, Ontario
L4K 5R2

Attention: Hatim Jafferjee
Land Development Coordinator

**SUPPLEMENTAL GROUNDWATER DATA
PROPOSED RESIDENTIAL DEVELOPMENT
CLAYTON AND ELORA SANDS
ELORA, ONTARIO**

Dear Mr. Jafferjee,

Further to the recent request and correspondence with MTE Consultants, SOIL-MAT ENGINEERS & CONSULTANTS LTD. has prepared the following brief updated groundwater level summary based on information collected between July 15, 2022 to May 3, 2023. This information is further to our preliminary hydrogeological assessment reports for the development lands [SM 301951-G, dated June 17 and July 20, 2022], and should be referenced in conjunction with those reports.

Groundwater Observations

Monitoring wells were installed at Borehole Nos. 004, 101, 102, 104, 201, 201A, 202, 203, 204, 205, 206, 301 through 305, and 401, to allow for future measurements of the static groundwater level. Monitoring data up to June 2022 was presented in the prior referenced reports. A data logger was maintained in each of the monitoring wells to allow for further continuous monitoring of the groundwater level between July 2022 to May 2023, the readings of which have been illustrated in graphs which can be found appended to the end of this report.

In addition, manual monitoring well readings were also taken from all of the installed monitoring well locations across the site on various dates, ranging from August 2021 to May 2023. These have been summarized in the following charts. As well, the detailed plots of continuous groundwater levels for each monitoring well are appended.

TABLE A
SUMMARY OF MANUAL GROUNDWATER READINGS (ELORA SANDS)

Borehole No. 004 (Ground Surface Elevation of 405.55 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
August 6, 2021	2.74	402.8
August 27, 2021	1.75	403.8
February 23, 2022	1.33	404.2
April 22, 2022	1.47	404.1
June 1, 2022	1.78	403.8
May 3, 2023	1.20	404.35

Borehole No. 201 (Ground Surface Elevation of 404.80 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	2.69	402.1
April 22, 2022	1.88	402.9
June 1, 2022	2.44	402.4
May 3, 2023	1.88	402.9

Borehole No. 201A (Ground Surface Elevation of 404.75 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	Dry	<401.8
April 22, 2022	2.05	402.7
June 1, 2022	2.43	402.3
May 3, 2023	1.71	403.1

Borehole No. 202 (Ground Surface Elevation of 406.59 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	5.5	401.1
April 22, 2022	4.76	401.8
June 1, 2022	5.43	401.2
May 3, 2023	4.51	402.1

Borehole No. 203 (Ground Surface Elevation of 407.13 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	Dry	<401.0
April 22, 2022	5.90	401.2
June 1, 2022	5.91	401.2
May 3, 2023	Dry	<401.0

Borehole No. 204 (Ground Surface Elevation of 409.56 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	2.81	406.7
April 22, 2022	1.16	408.4
June 1, 2022	1.53	408.0
May 3, 2023	1.20	408.4

Borehole No. 205 (Ground Surface Elevation of 412.99 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	2.56	410.4
April 22, 2022	2.25	410.7
June 1, 2022	2.39	410.6
May 3, 2023	2.34	410.6

Borehole No. 206 (Ground Surface Elevation of 412.88 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 17, 2022	6.83	406.1
April 22, 2022	4.60	408.3
June 1, 2022	4.66	408.2
May 3, 2023	4.76	408.1

Borehole No. 401 (Ground Surface Elevation of 420.91 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
April 22, 2022	2.29	418.6
June 1, 2022	2.39	418.5
May 3, 2023	2.31	418.6

TABLE B
SUMMARY OF MANUAL GROUNDWATER READINGS (CLAYTON LANDS)

Borehole No. 101 (Ground Surface Elevation of 408.60 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
August 6, 2021	4.78	403.8
August 27, 2021	4.71	403.9
October 14, 2021	4.33	404.3
February 23, 2022	4.31	404.3
April 22, 2022	4.07	404.5
June 1, 2022	4.15	404.5
May 3, 2023	4.06	404.5

Borehole No. 102 (Ground Surface Elevation of 414.13 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
August 6, 2021	3.58	410.6
August 27, 2021	3.61	410.5
October 14, 2021	3.62	410.5
February 23, 2022	3.50	410.6
April 22, 2022	2.89	411.2
June 1, 2022	3.05	411.1
May 3, 2023	3.00	411.0

Borehole No. 103 (Ground Surface Elevation of 414.13 metres)		
	Groundwater Depth (m)	Groundwater Elevation (m)
August 6, 2021	6.78	407.3
August 27, 2021	6.96	407.2
October 14, 2021	7.09	407.0
February 23, 2022	6.83	407.3
April 22, 2022	6.13	408.0
June 1, 2022	6.28	407.8
May 3, 2023	6.56	407.6

Borehole No. 301 (Ground Surface Elevation of 412.75 metres)*		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 23, 2022	6.29	406.5
April 22, 2022	5.65	407.1
June 1, 2022	5.71	407.0
May 3, 2023	5.85	406.9

Borehole No. 302 (Ground Surface Elevation of 413.00 metres)*		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 23, 2022	6.62	406.4
April 22, 2022	6.06	406.9
June 1, 2022	6.12	406.9
May 3, 2023	6.35	406.7

Borehole No. 303 (Ground Surface Elevation of 414.00 metres)*		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 23, 2022	5.40	408.6
April 22, 2022	6.04	407.9
June 1, 2022	6.11	407.9
May 3, 2023	6.41	407.6

Borehole No. 304 (Ground Surface Elevation of 407.90 metres)*		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 23, 2022	2.87	405.0
April 22, 2022	2.60	405.3
June 1, 2022	2.96	404.9
May 3, 2023	2.42	405.5

Borehole No. 305 (Ground Surface Elevation of 408.60 metres)*		
	Groundwater Depth (m)	Groundwater Elevation (m)
February 23, 2022	Dry	<405.6
April 22, 2022	Dry	<405.6
June 1, 2022	Dry	<405.6
May 3, 2023	Dry	<405.6

*Ground surface elevations have been interpolated based on contours from current topographic survey

We trust that this geotechnical report is sufficient for your present requirements. Should you require any additional information or clarification as to the contents of this document, please do not hesitate to contact the undersigned.

Yours very truly,
 SOIL-MAT ENGINEERS & CONSULTANTS LTD.



Kevin Reid, B. Eng
 Junior Engineer



Ian Shaw, P. Eng., QP_{ESA}
 Senior Engineer

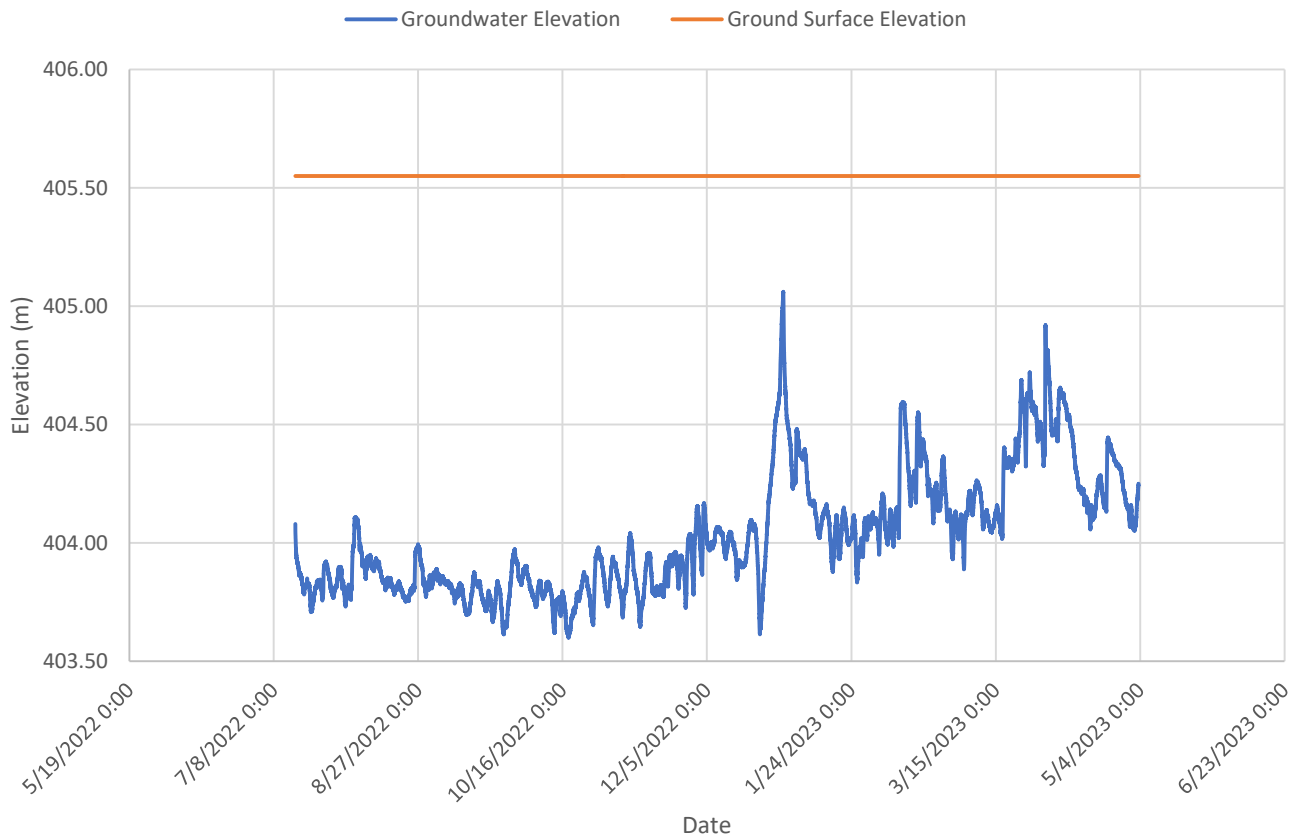
Enclosures: Drawing No. 1, Borehole Location Plan
 Groundwater Monitoring Well Plots

Distribution: Cachet Developments [pdf]

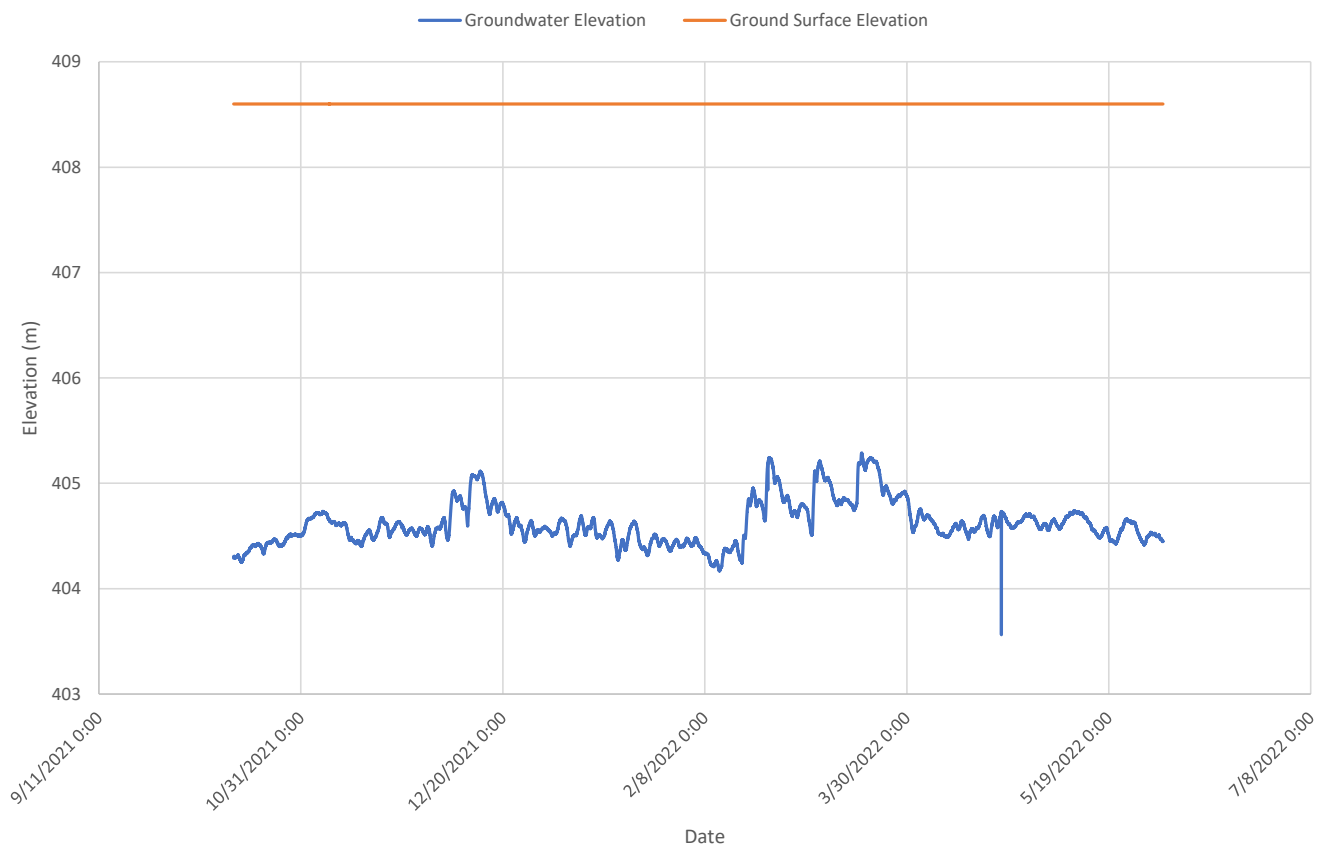


LEGEND  Borehole Location BH#  Monitoring Well Location MW#  Geological Cross Section Location	
NOTES 1. This drawing should be read in conjunction with Soil-Mat Engineers & Consultants Ltd. Report No. SM 301591-G. 2. Borehole and monitoring well locations are approximate.	
SOIL-MAT ENGINEERS & CONSULTANTS LTD.	
Geotechnical Investigation Proposed Residential Development 7581 Nichol Road 15 Elora, Ontario	
Borehole Location Plan	
Project No. SM 301591-G	
Date: June 2022	
Drawn: SW	Checked: IS
SM 301591-G Borehole Location Plan	
Drawing No. 1	

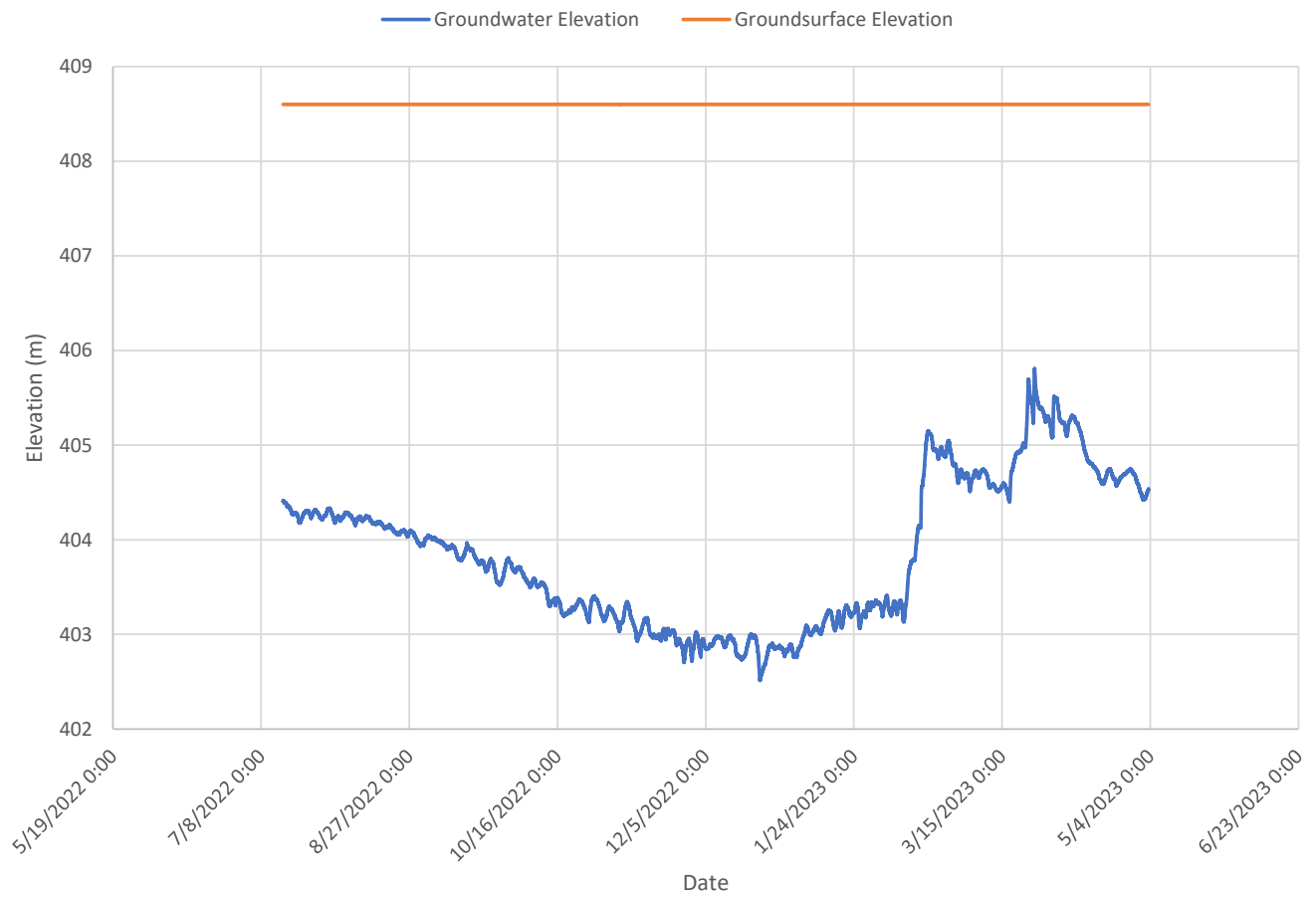
MW 004 Groundwater Elevation July 2022 to May 2023



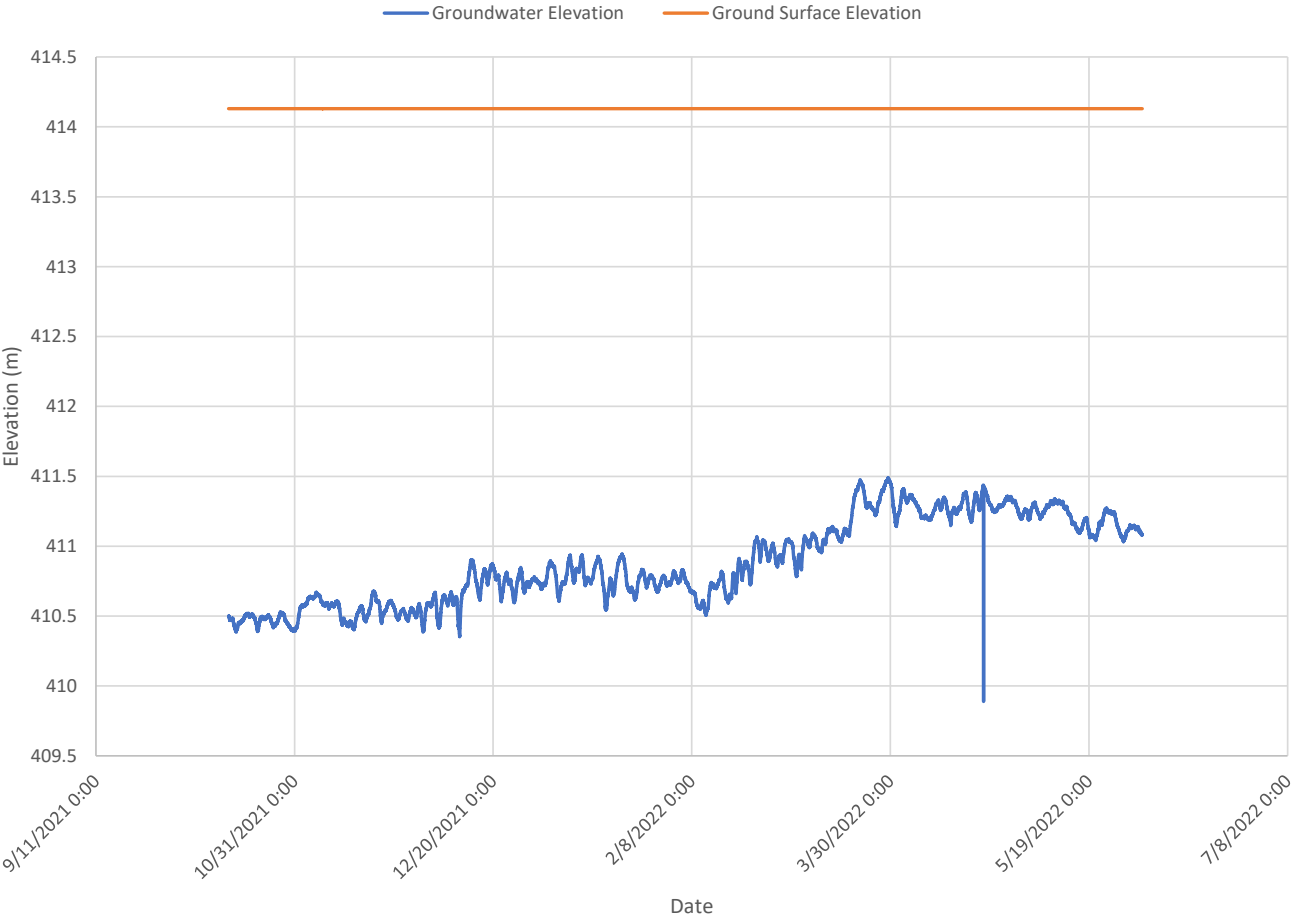
MW 101 (Elevation of 408.60 metres)
October 2021 to June 2022



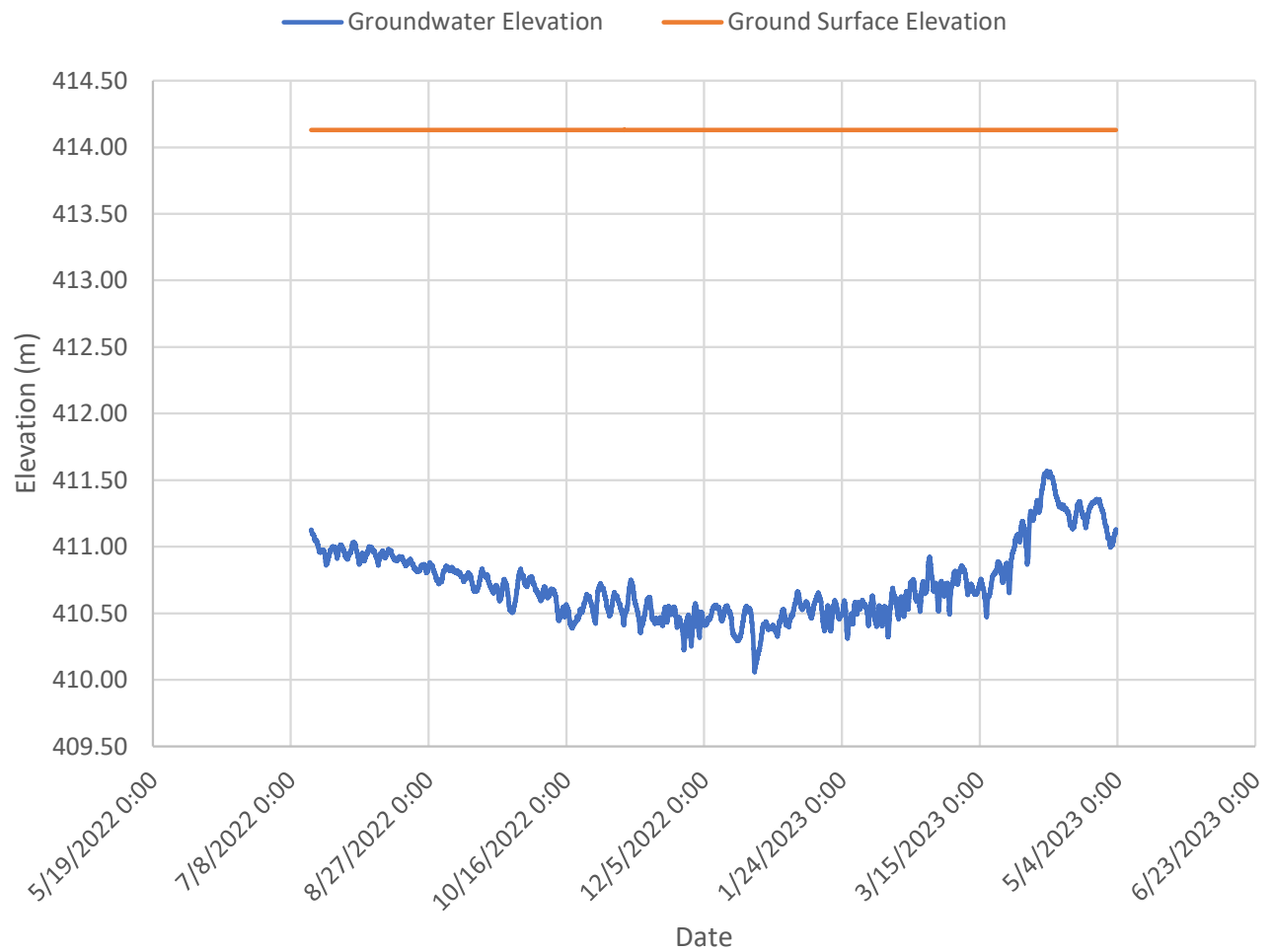
MW 101 Groundwater Elevation July 2022 to May 2023



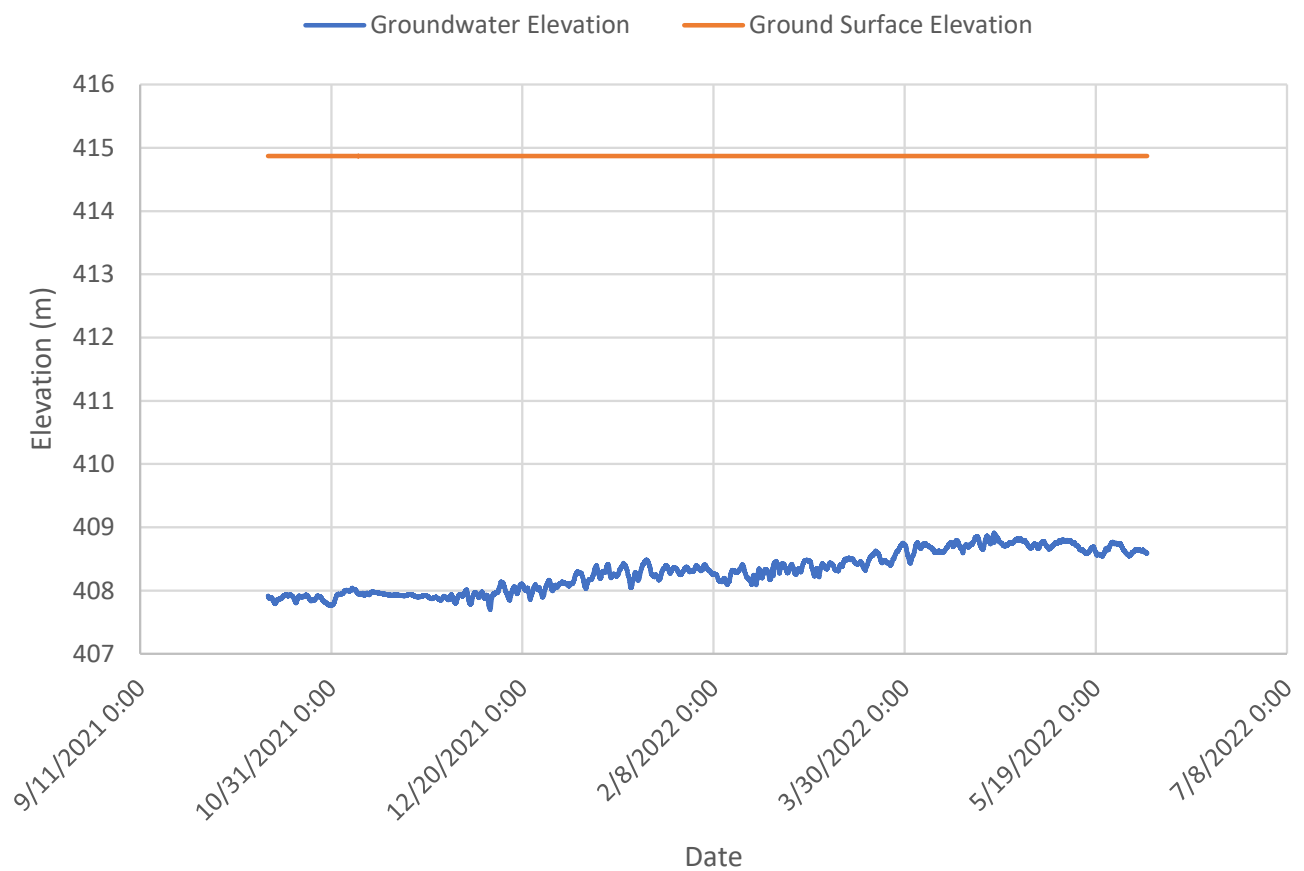
MW 102 (Elevation of 414.13 metres)
October 2021 to June 2022



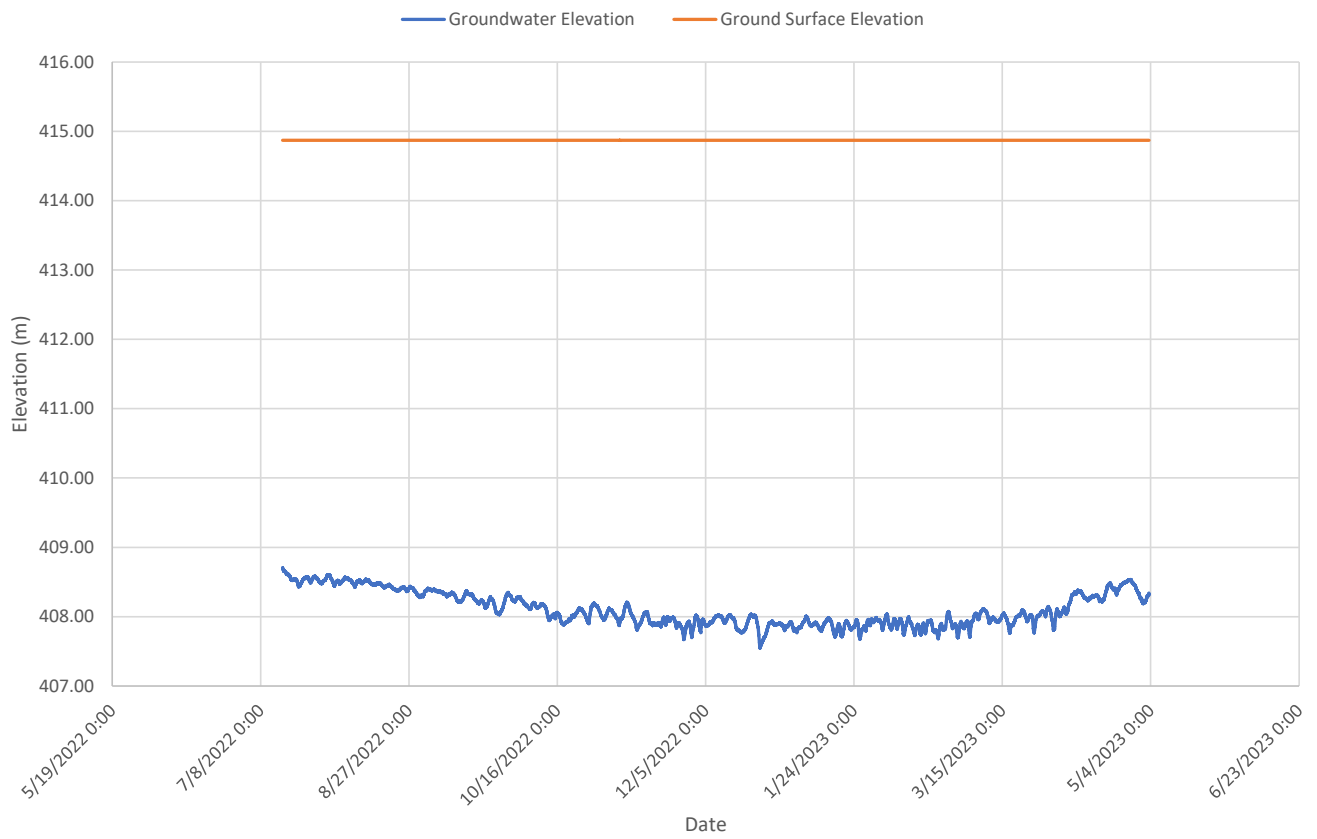
MW 102 Groundwater Elevation July 2022 to May 2023



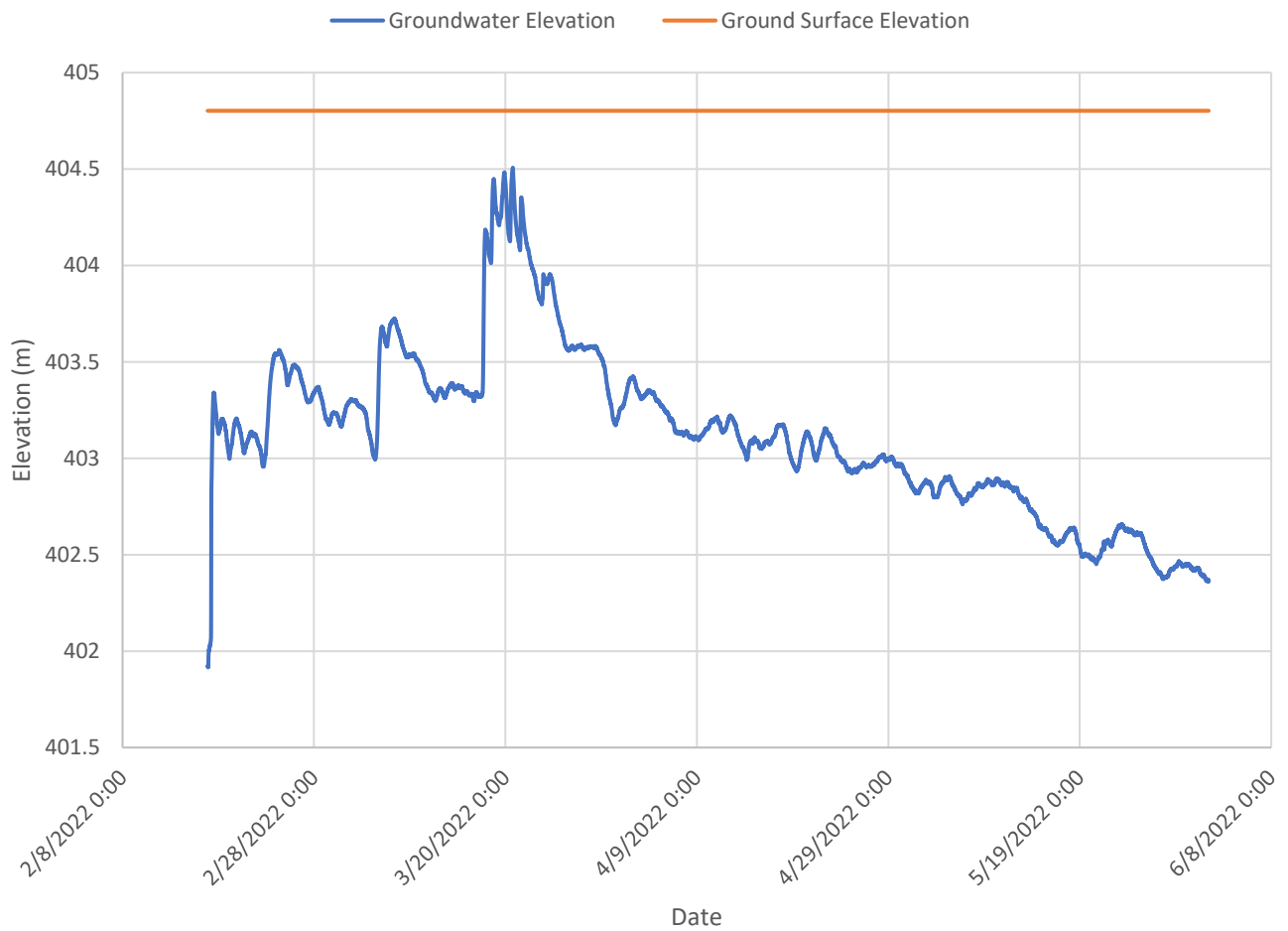
MW104 (Elevation of 414.87 metres)
October 2021 to June 2022



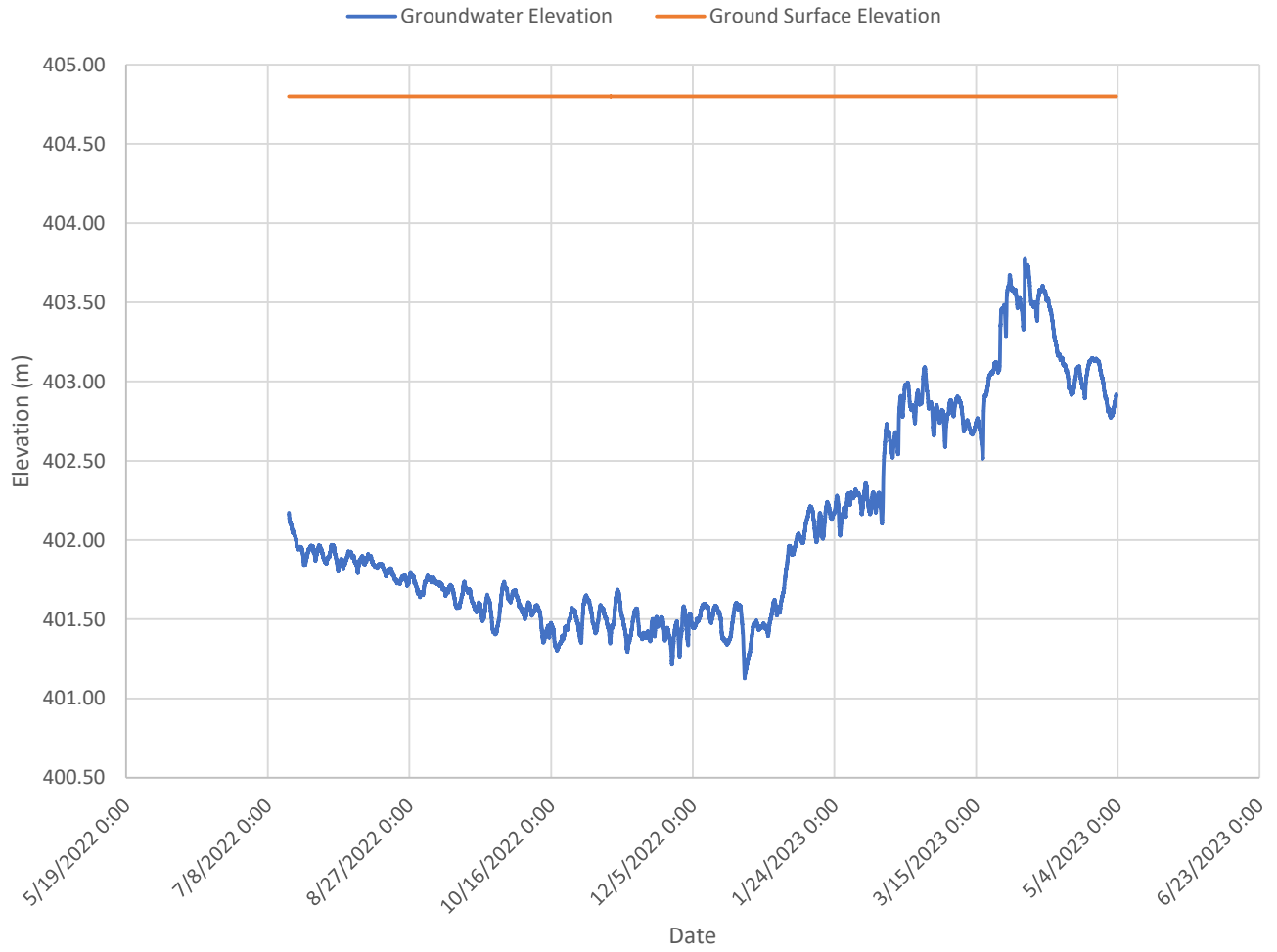
MW 104 Groundwater Elevation July 2022 to May 2023



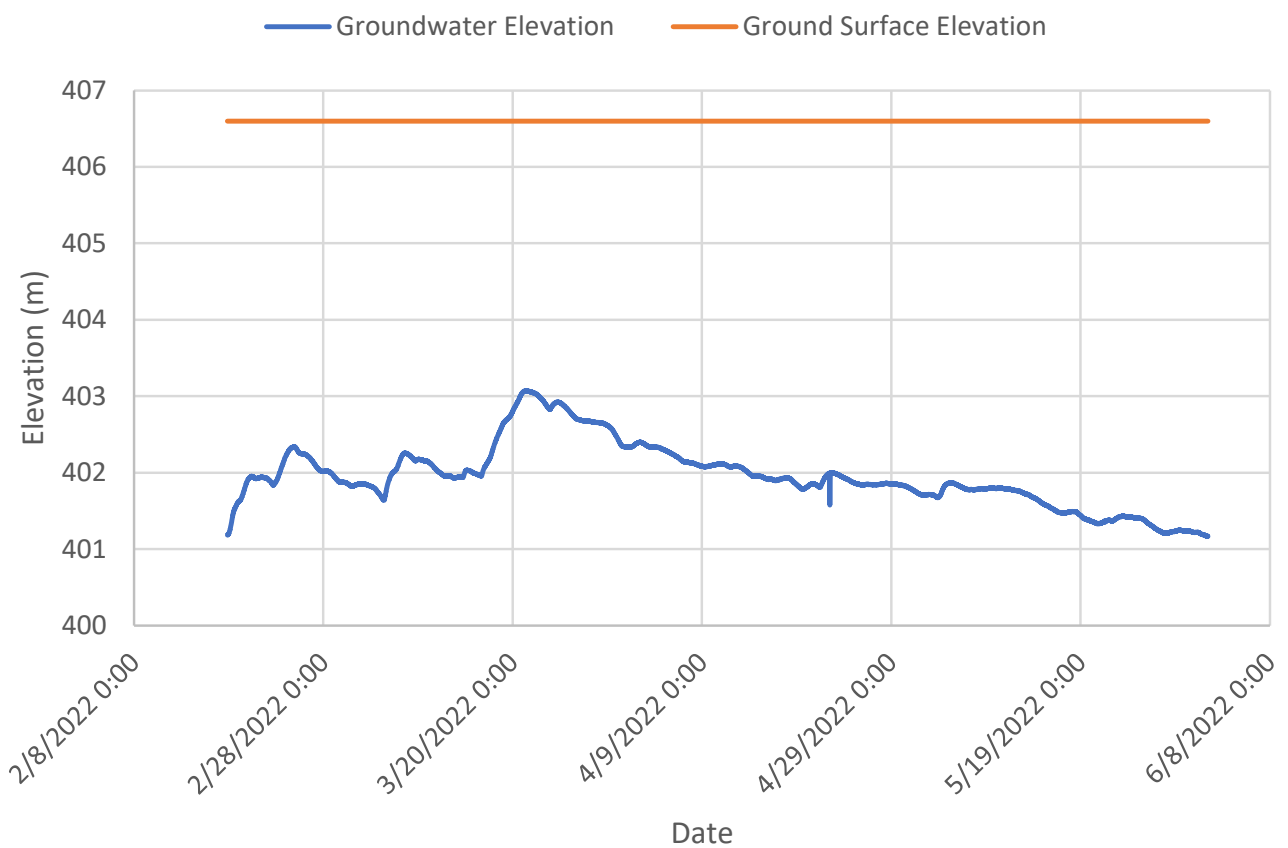
MW 201 (Elevation of 404.80 metres)
February 2022 to June 2022



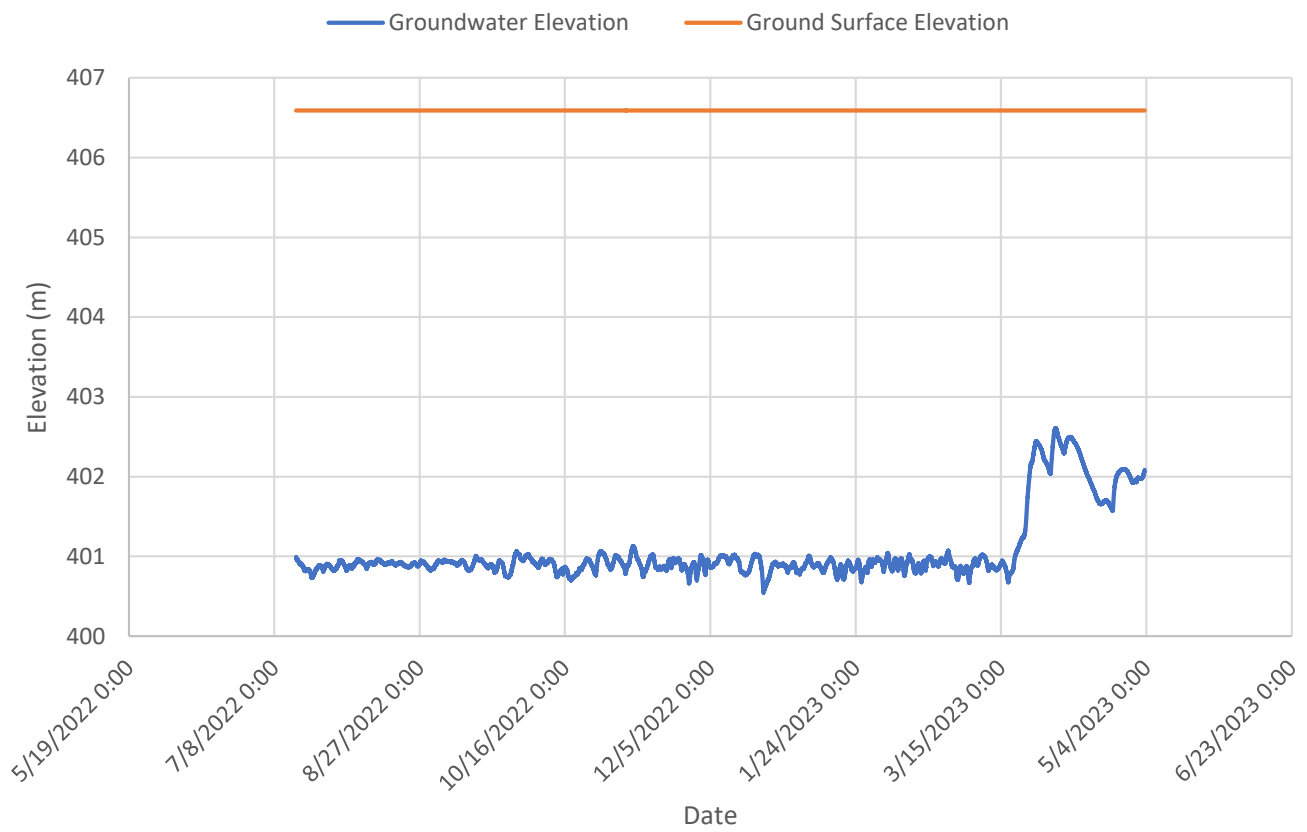
MW 201 Groundwater Elevation
July 2022 to May 2023



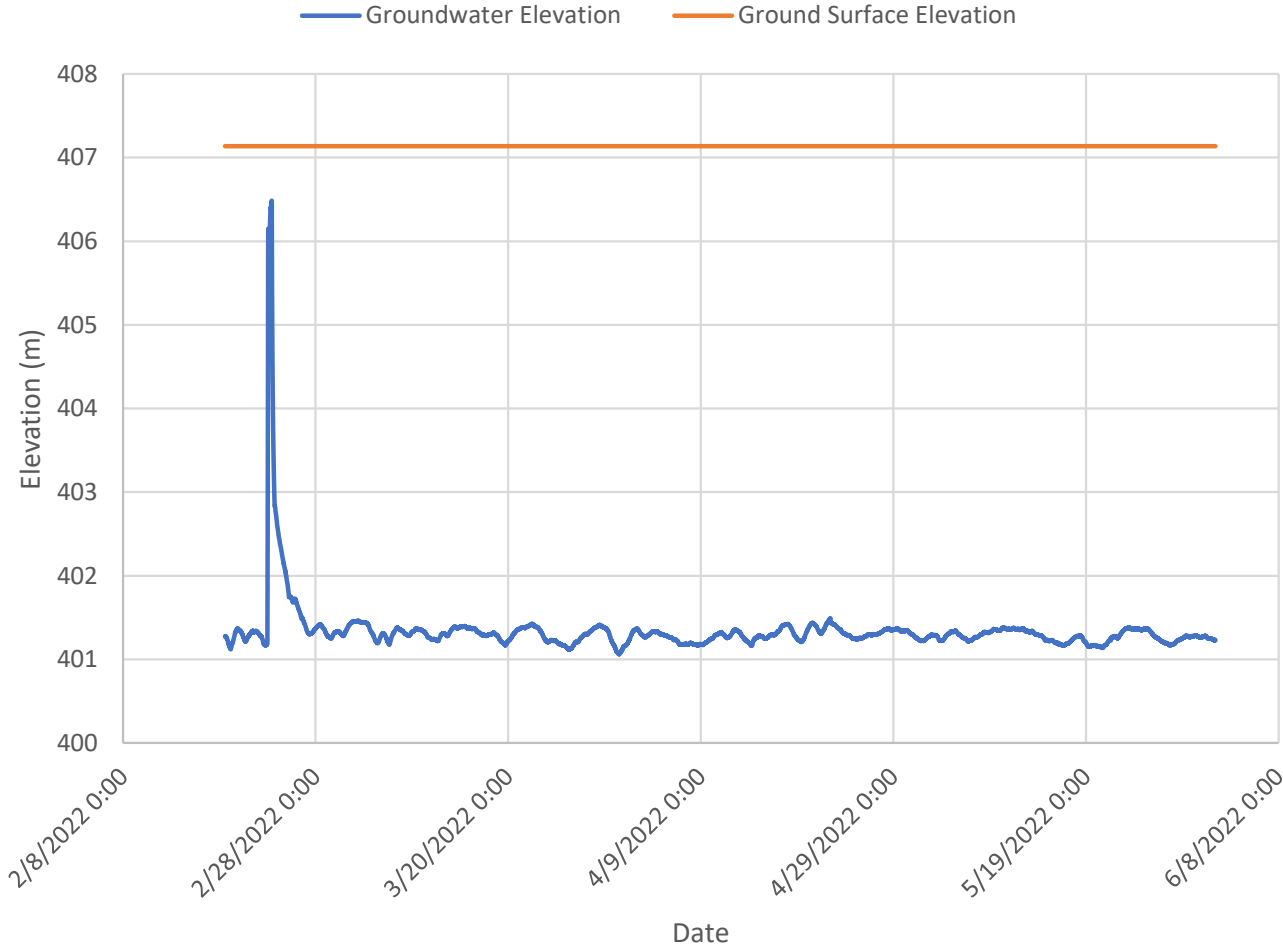
MW 202 (Elevation of 406.59 metres) February 2022 to June 2022



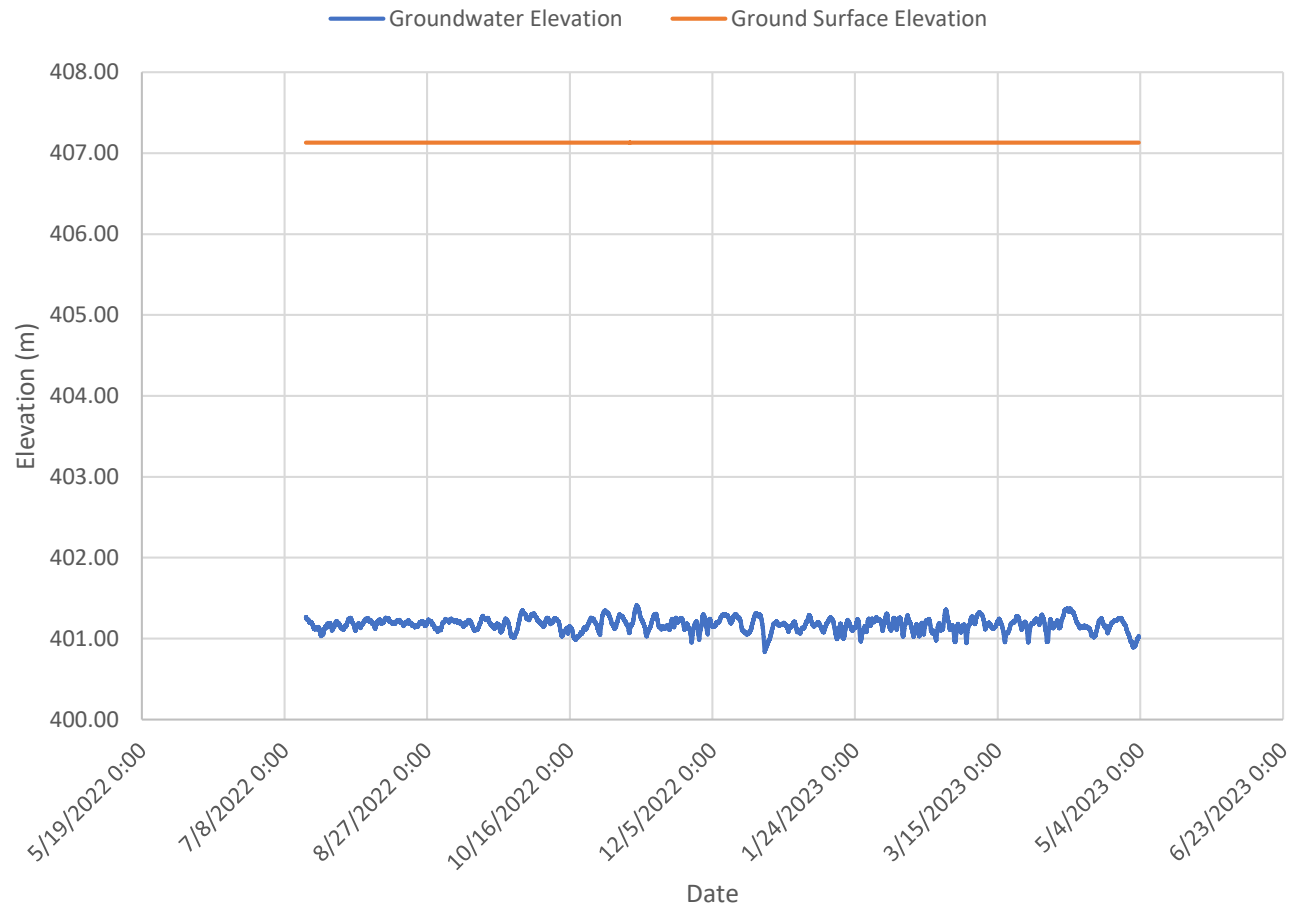
MW 202 Groundwater Elevation July 2022 to May 2023



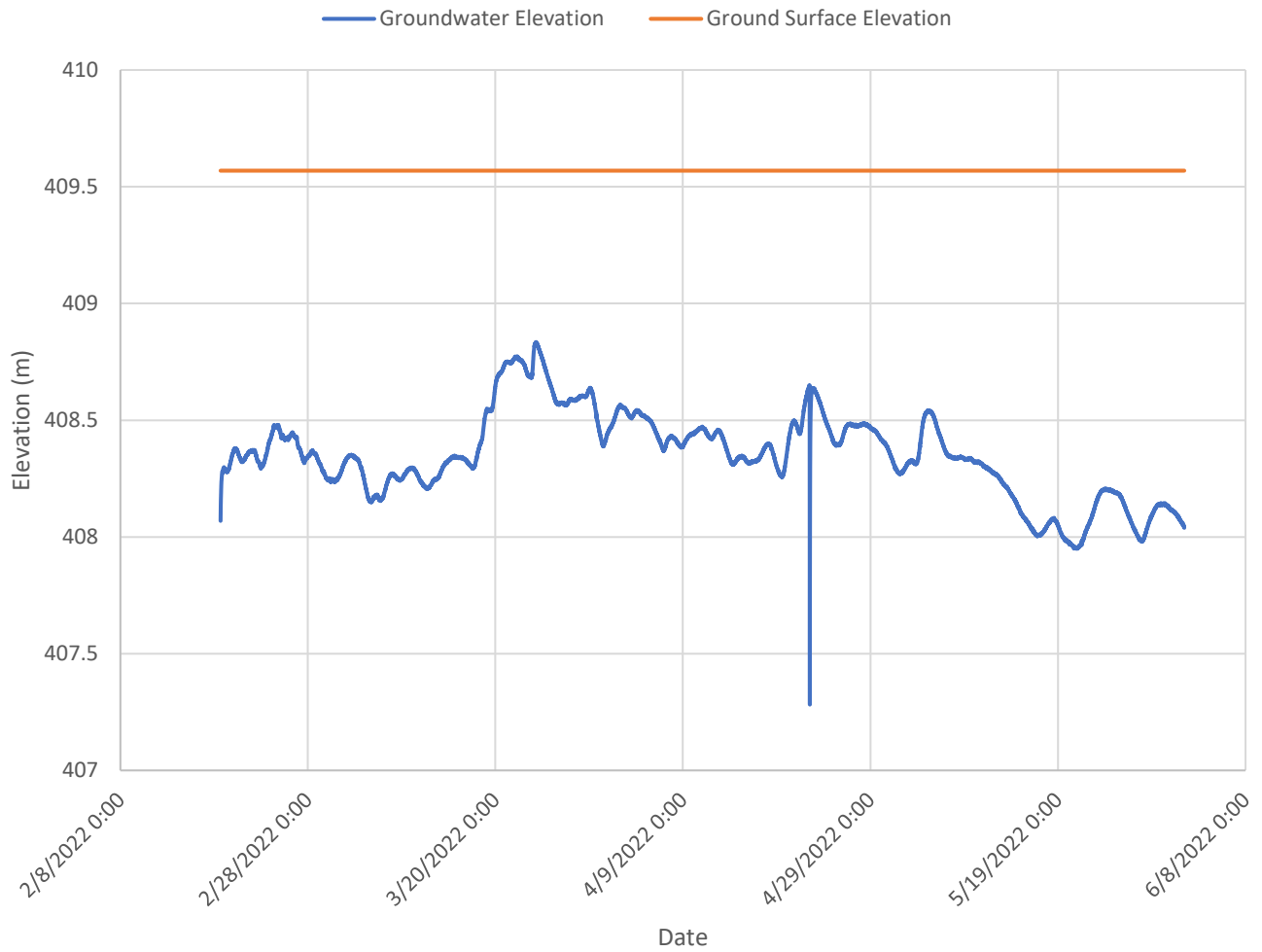
MW 203 (Elevation of 407.13 metres)
February 2022 to June 2022



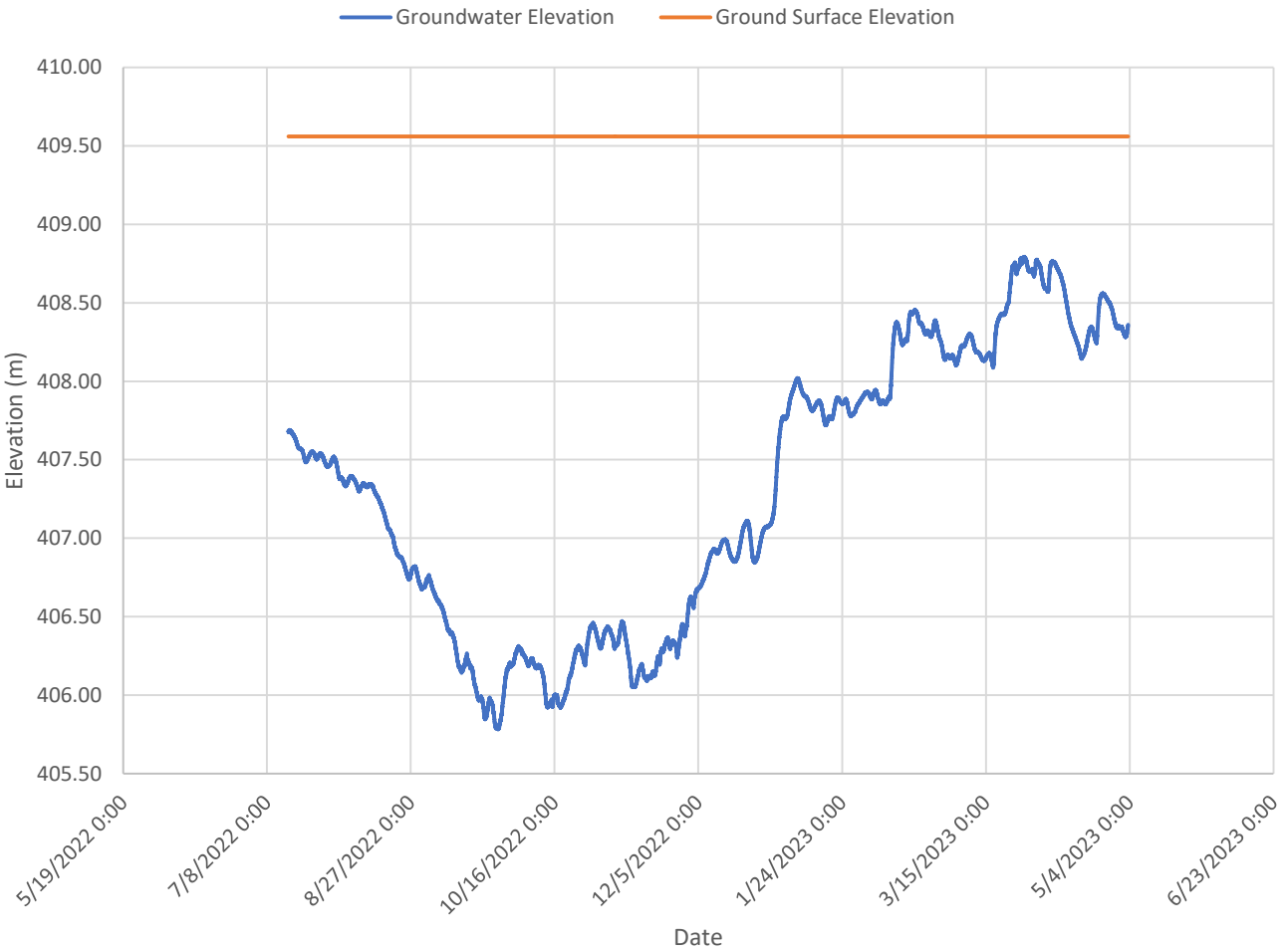
MW 203 Groundwater Elevation July 2022 to May 2023



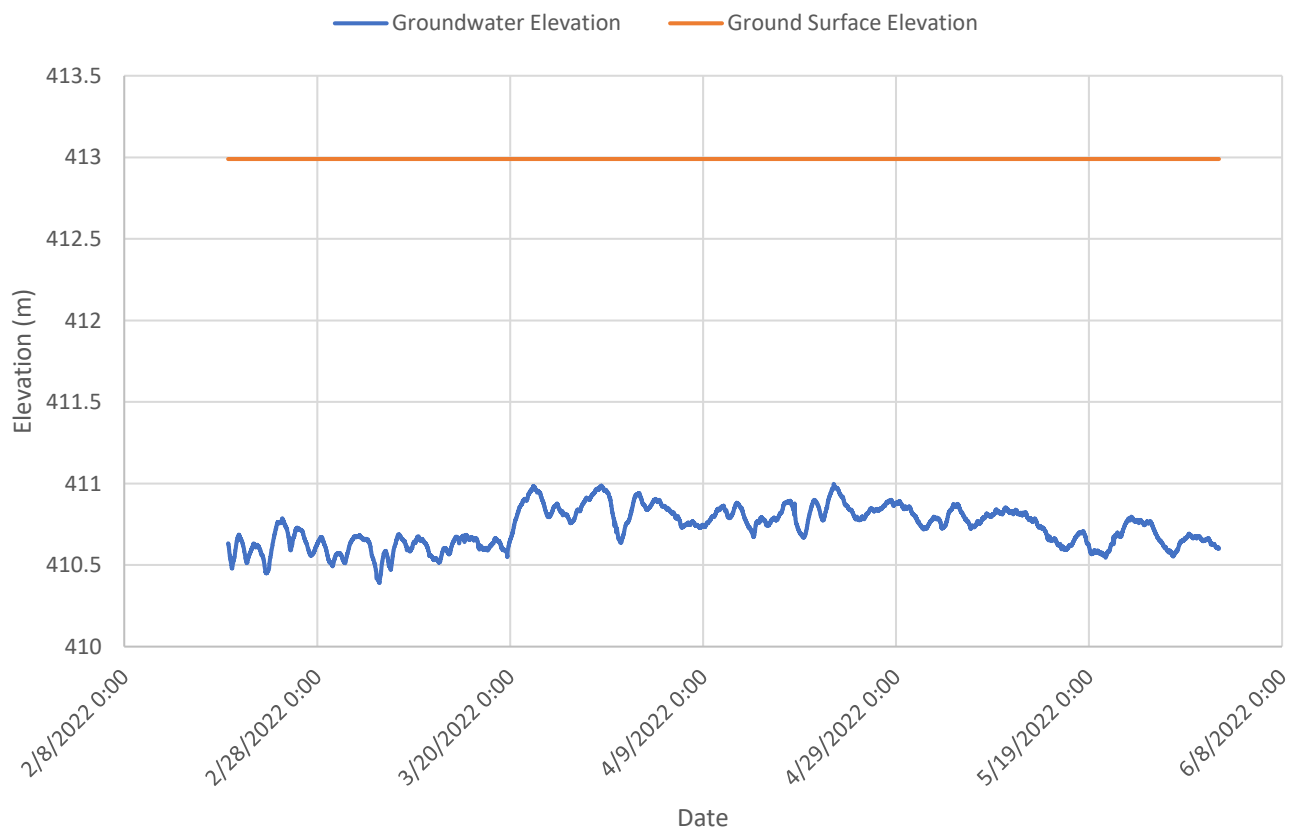
MW 204 (Elevation of 409.57 metres)
February 2022 to June 2022



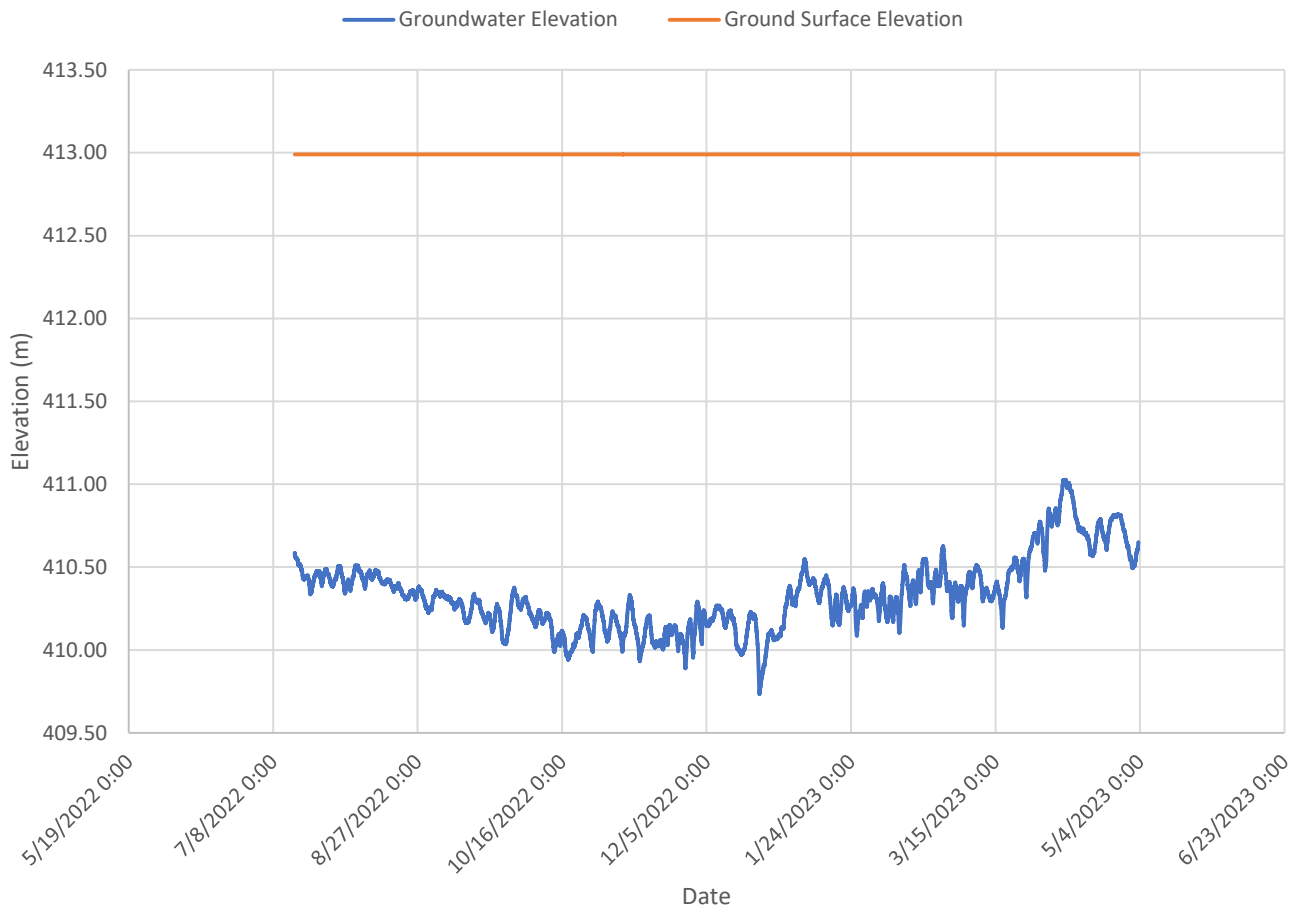
MW 204 Groundwater Elevation
July 2022 to May 2023



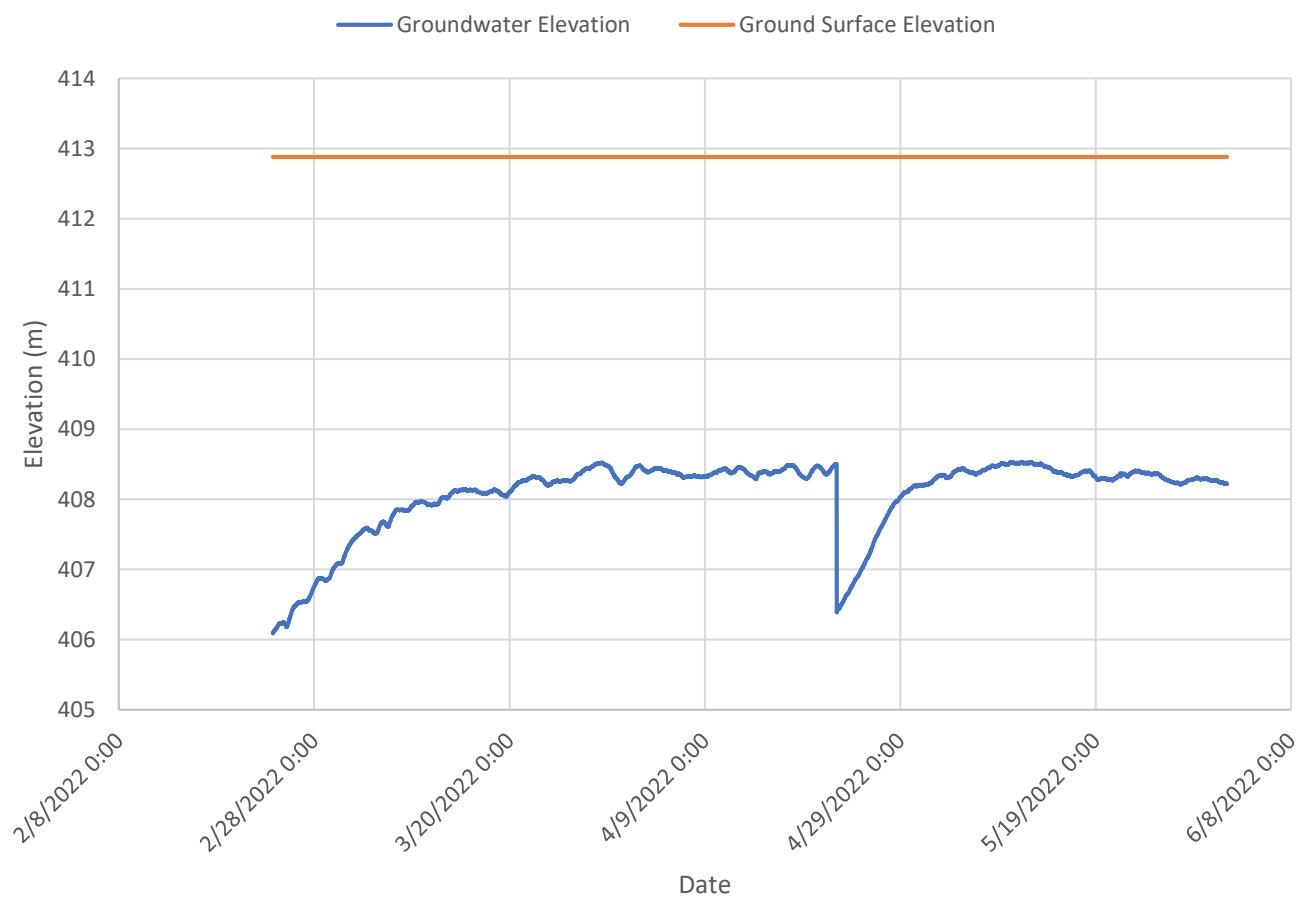
MW 205 (Elevation of 412.99 metres)
February 2022 to June 2022



MW 205 Groundwater Elevation July 2022 to May 2023

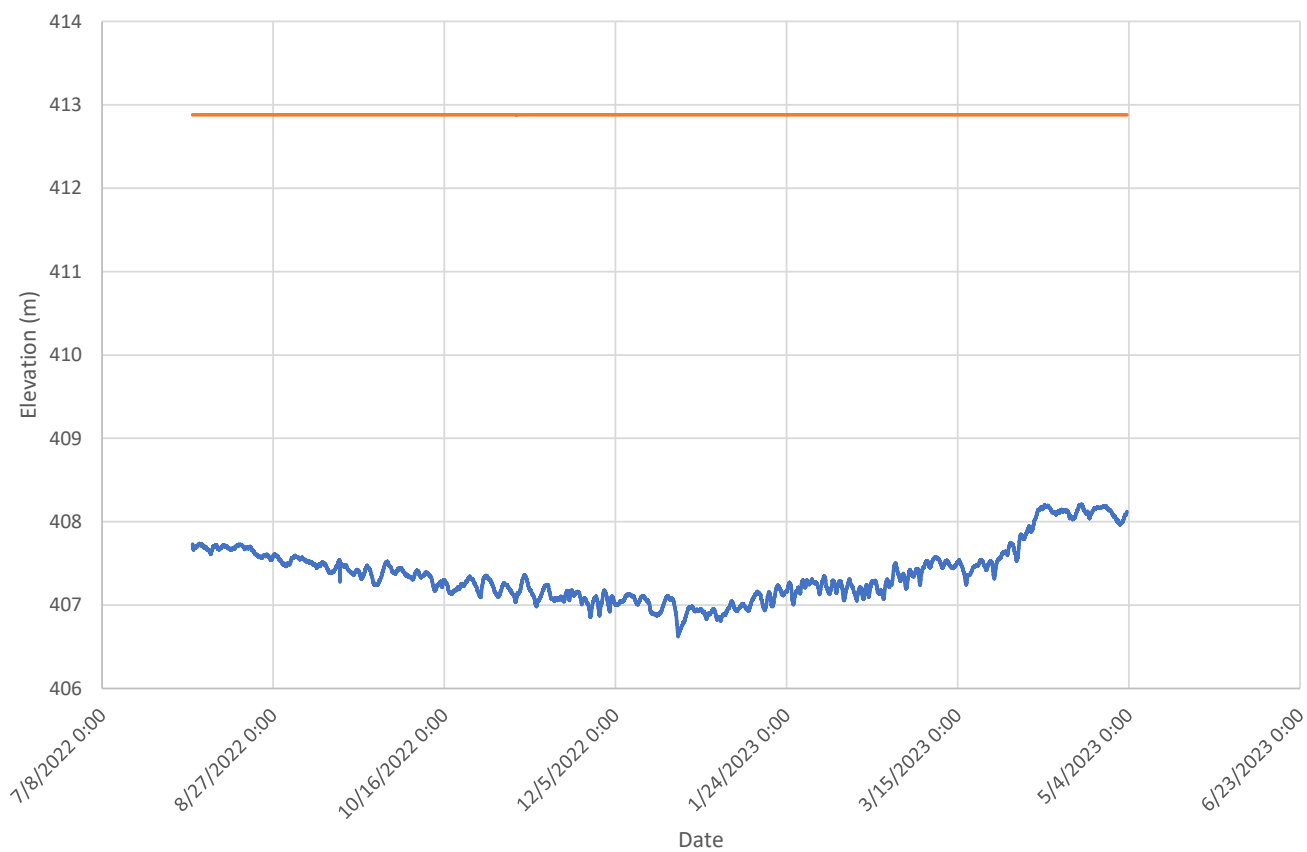


MW 206 (Elevation of 412.88 metres)
February 2022 to June 2022

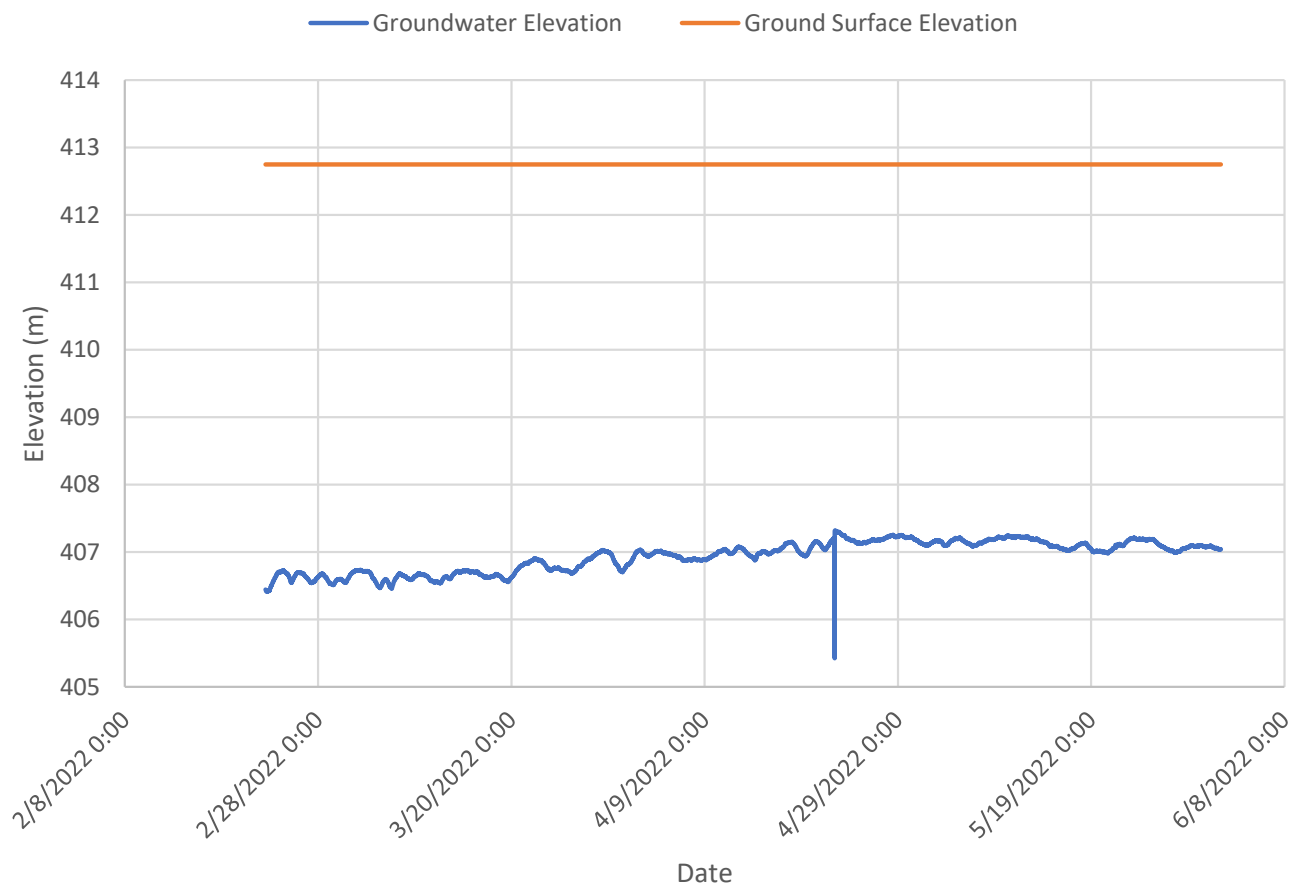


MW 206 Groundwater Elevation July 2022 to May 2023

Groundwater Elevation Ground Surface Elevation

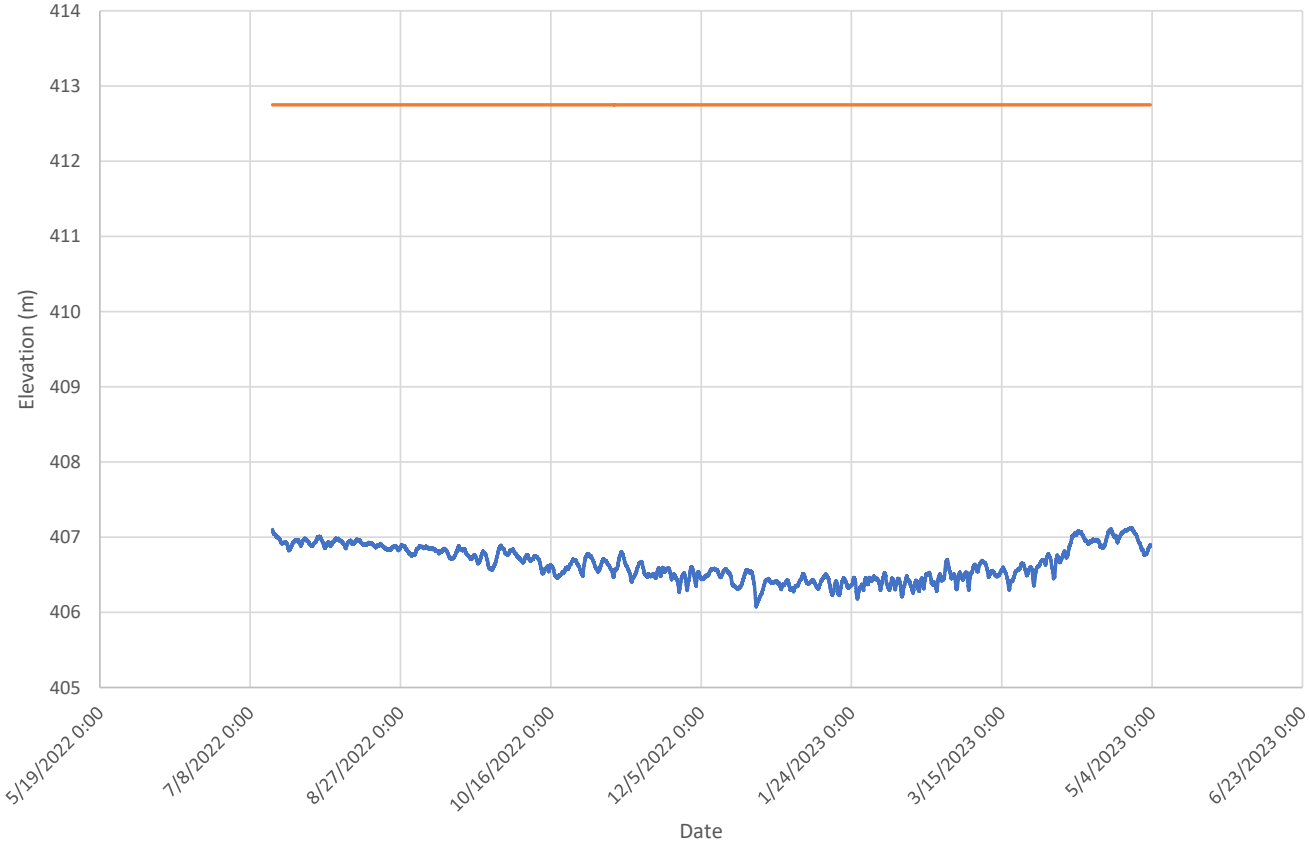


MW 301 (Elevation of 412.75 metres)
February 2022 to June 2022

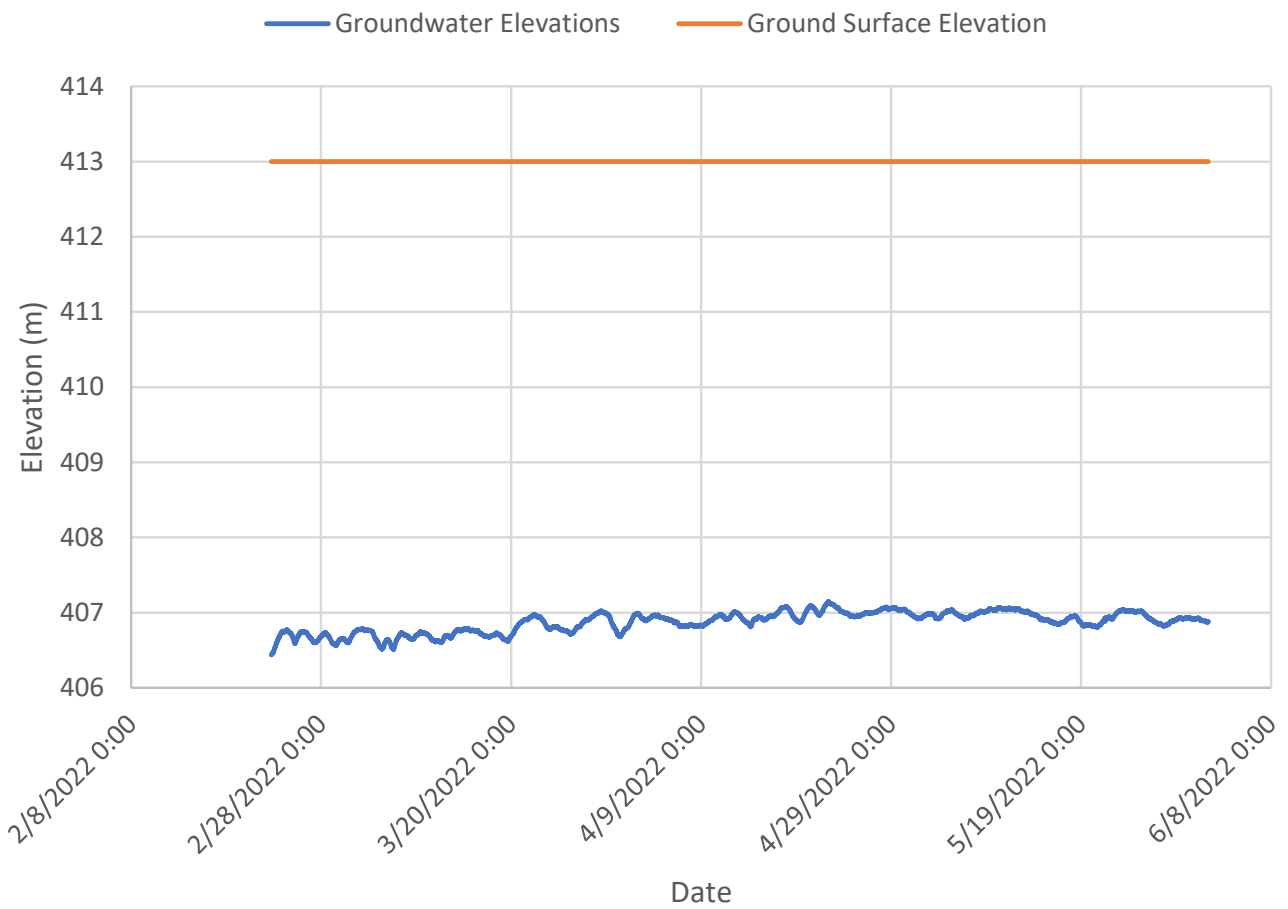


MW 301 Groundwater Elevation
July 2022 to May 2023

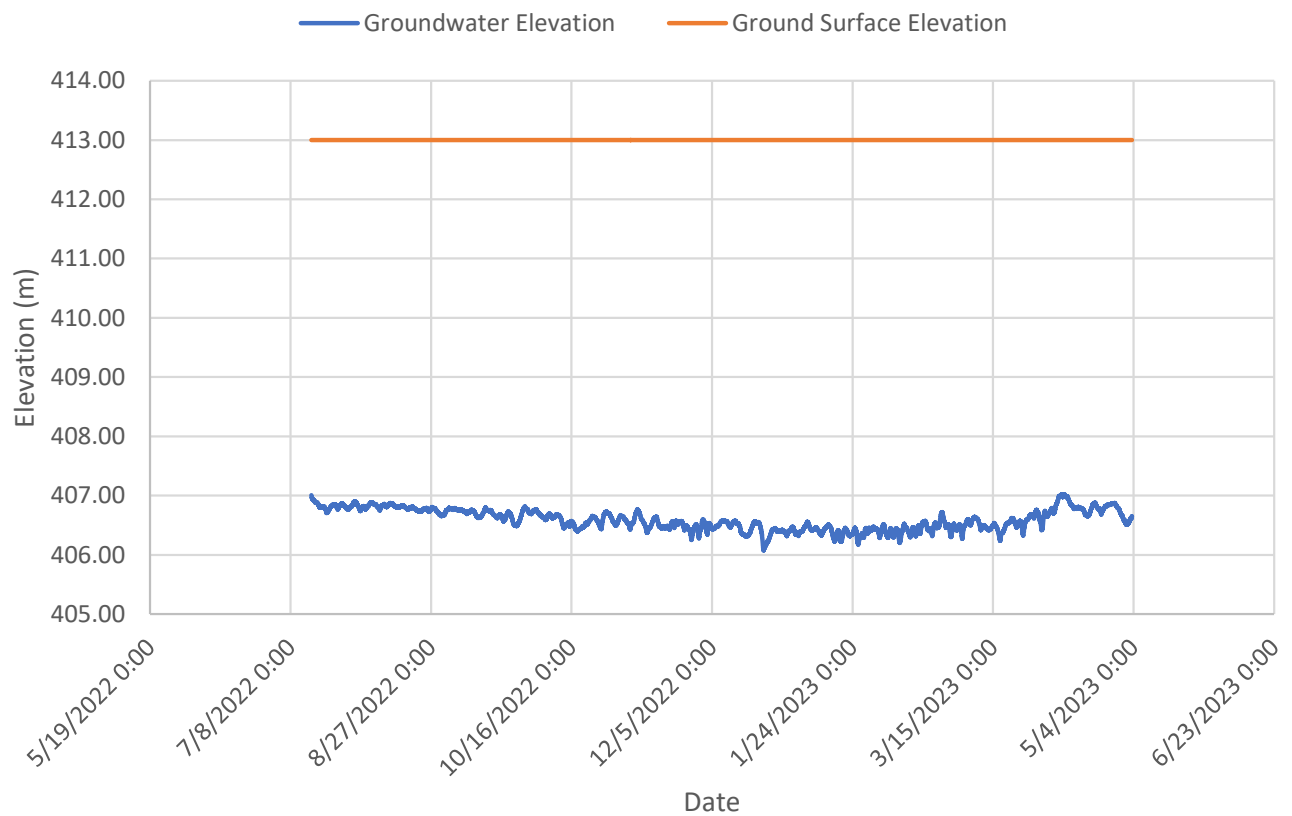
Groundwater Elevation Ground Surface Elevation



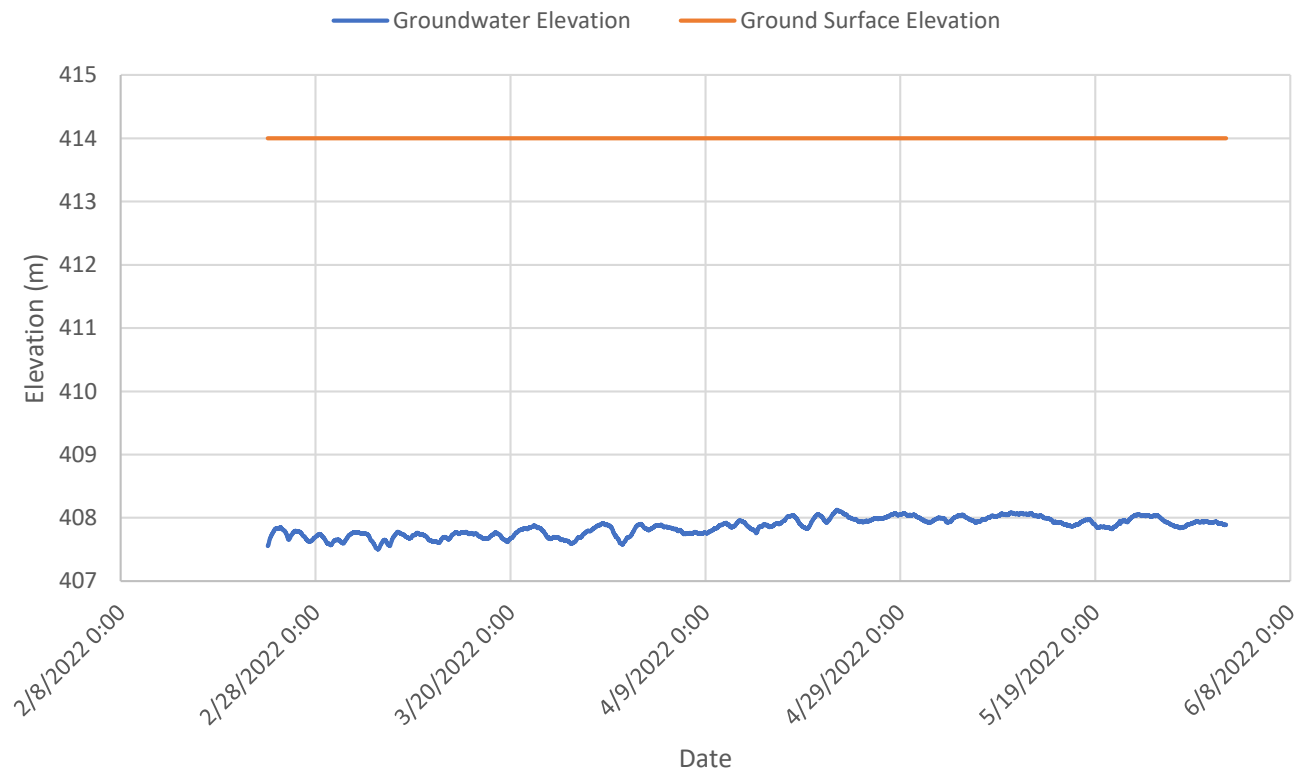
MW 302 (Elevation of 413.0 metres) February 2022 to June 2022



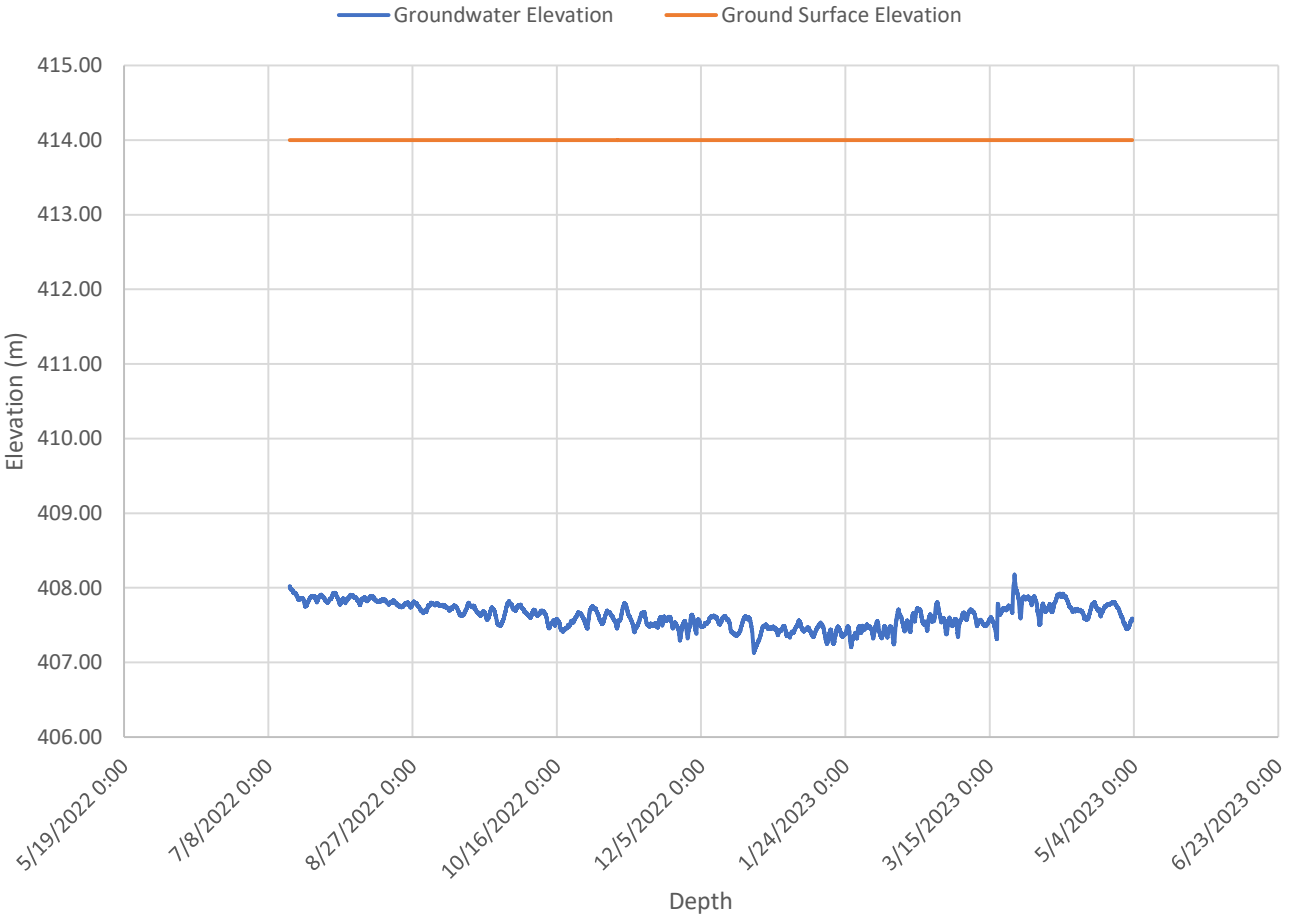
MW 302 Groundwater Elevation July 2022 to May 2023



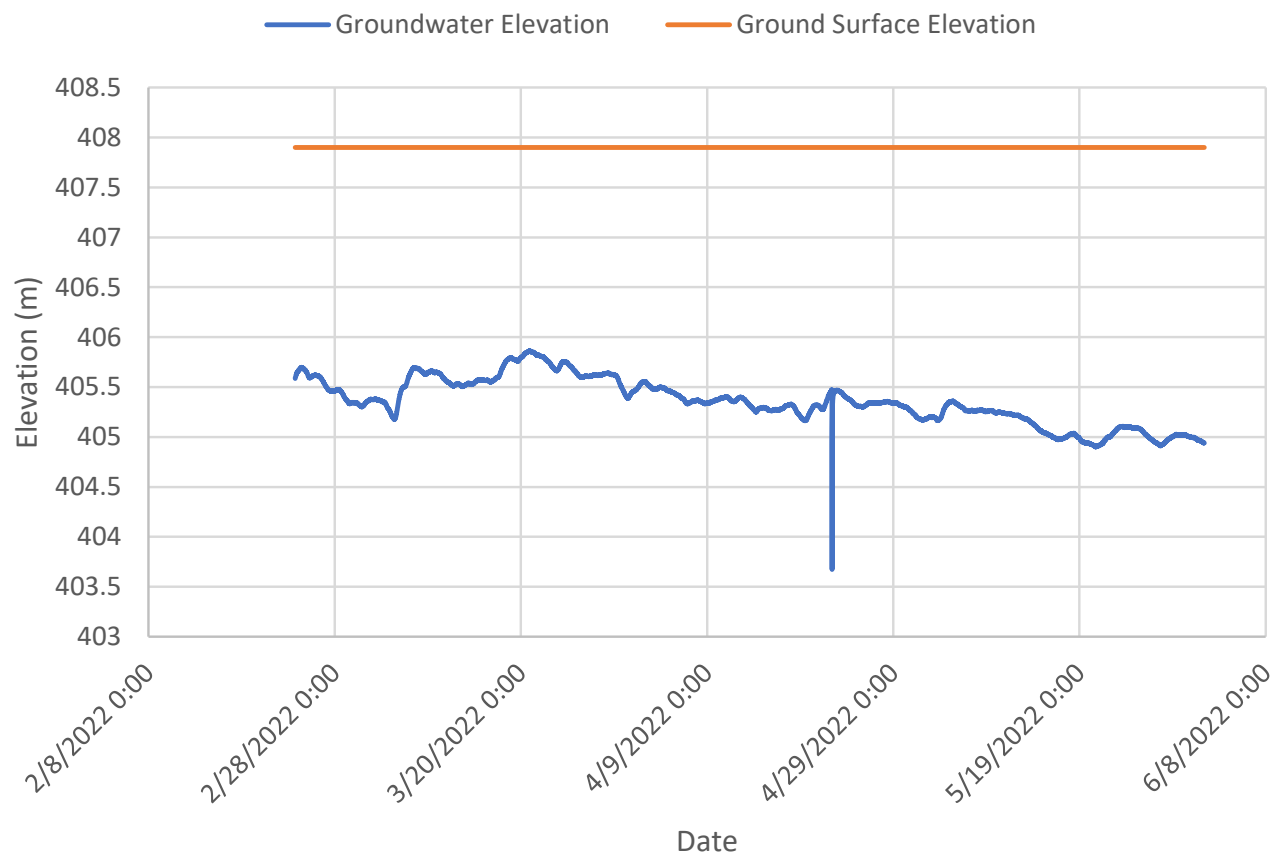
MW 303 (Elevation of 414.0 metres)
February 2022 to June 2022



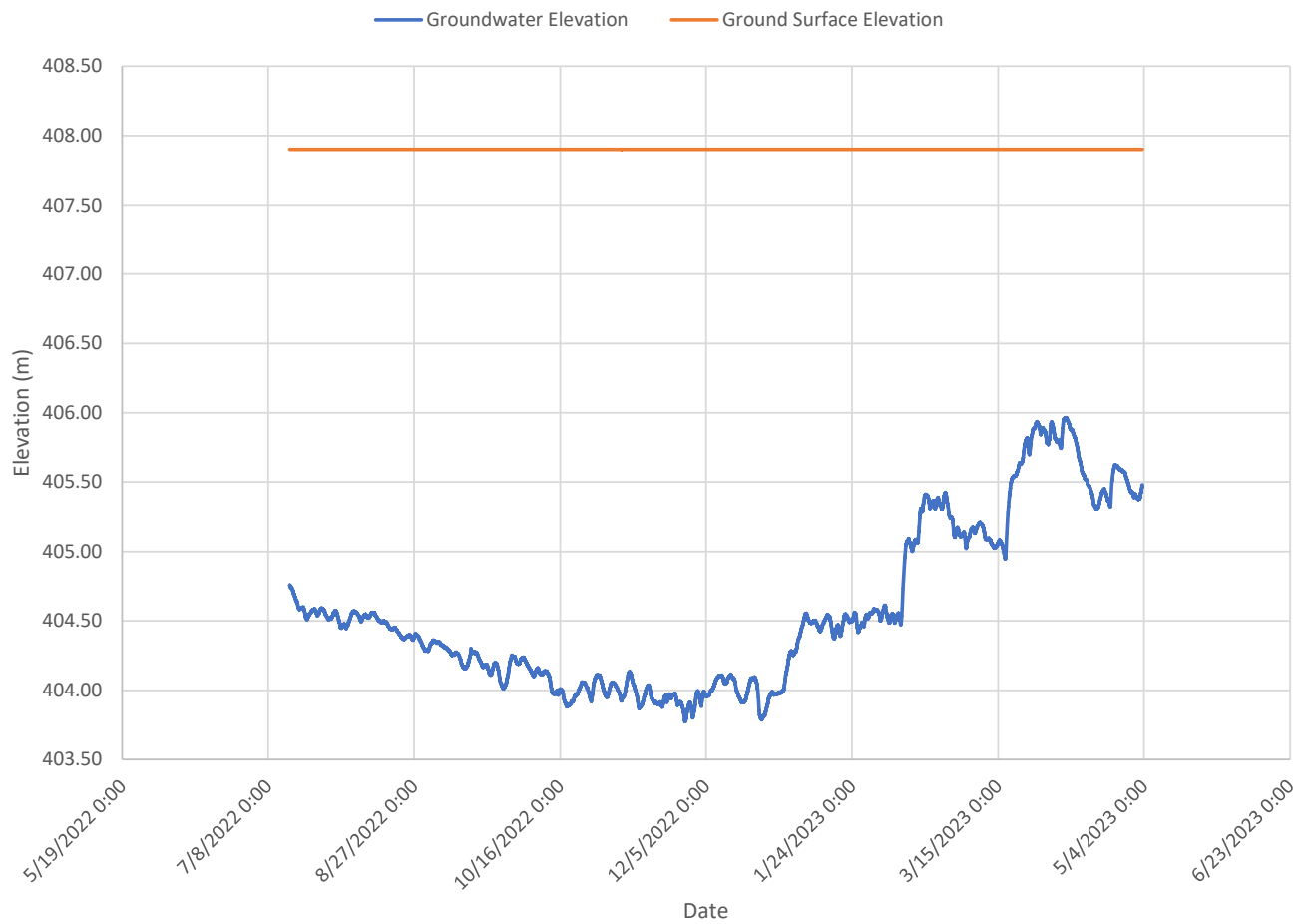
MW 303 Groundwater Elevation
July 2022 to May 2023



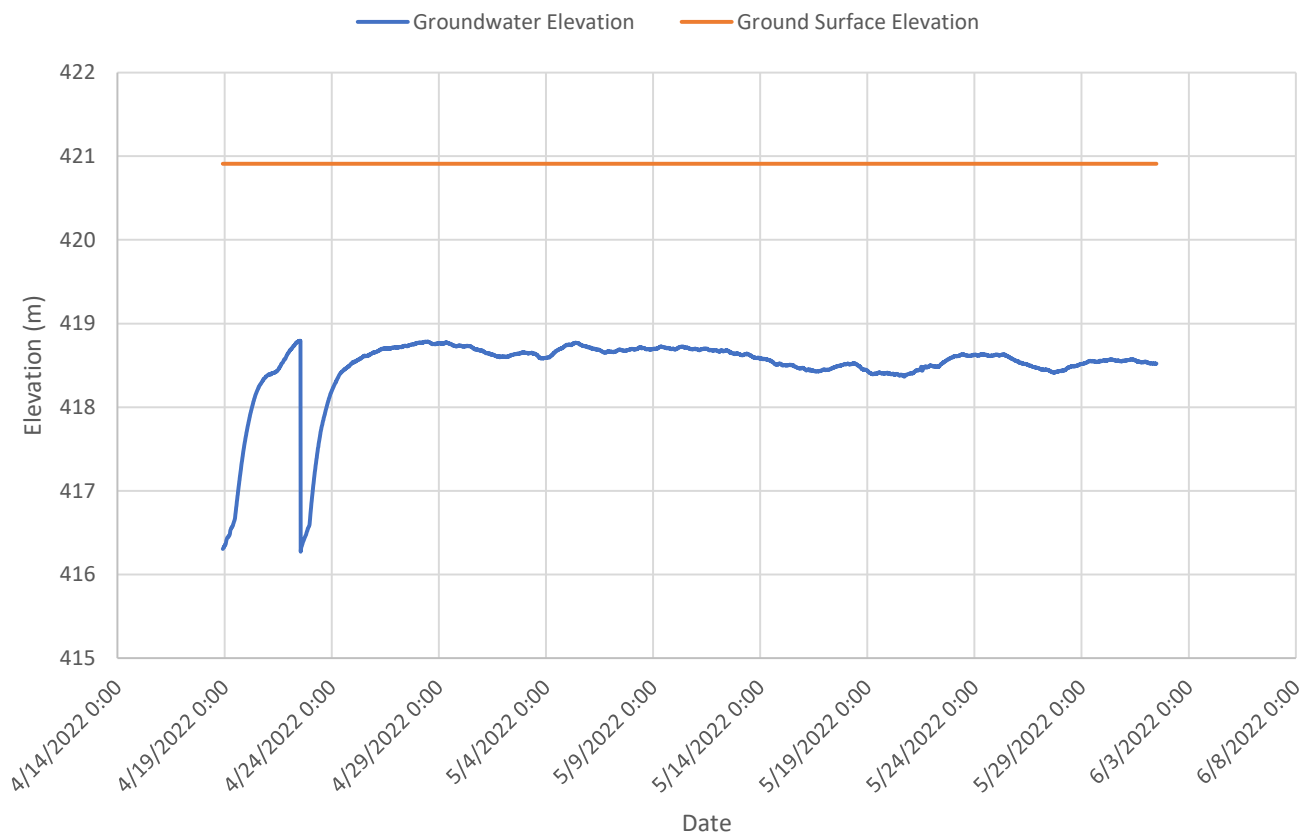
MW 304 (Elevation of 407.9 metres) February 2022 to June 2022



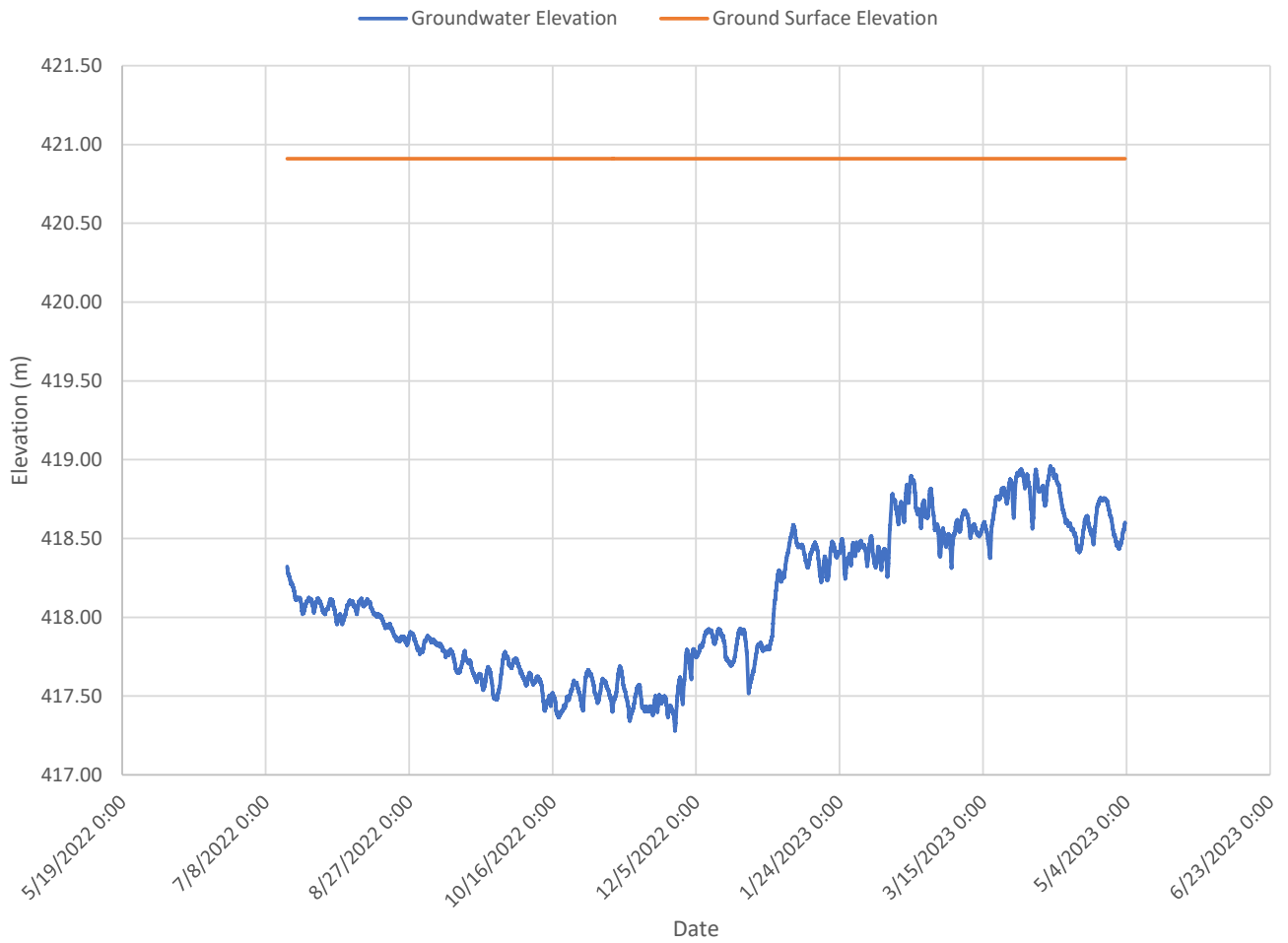
MW 304 Groundwater Elevation July 2022 to May 2023



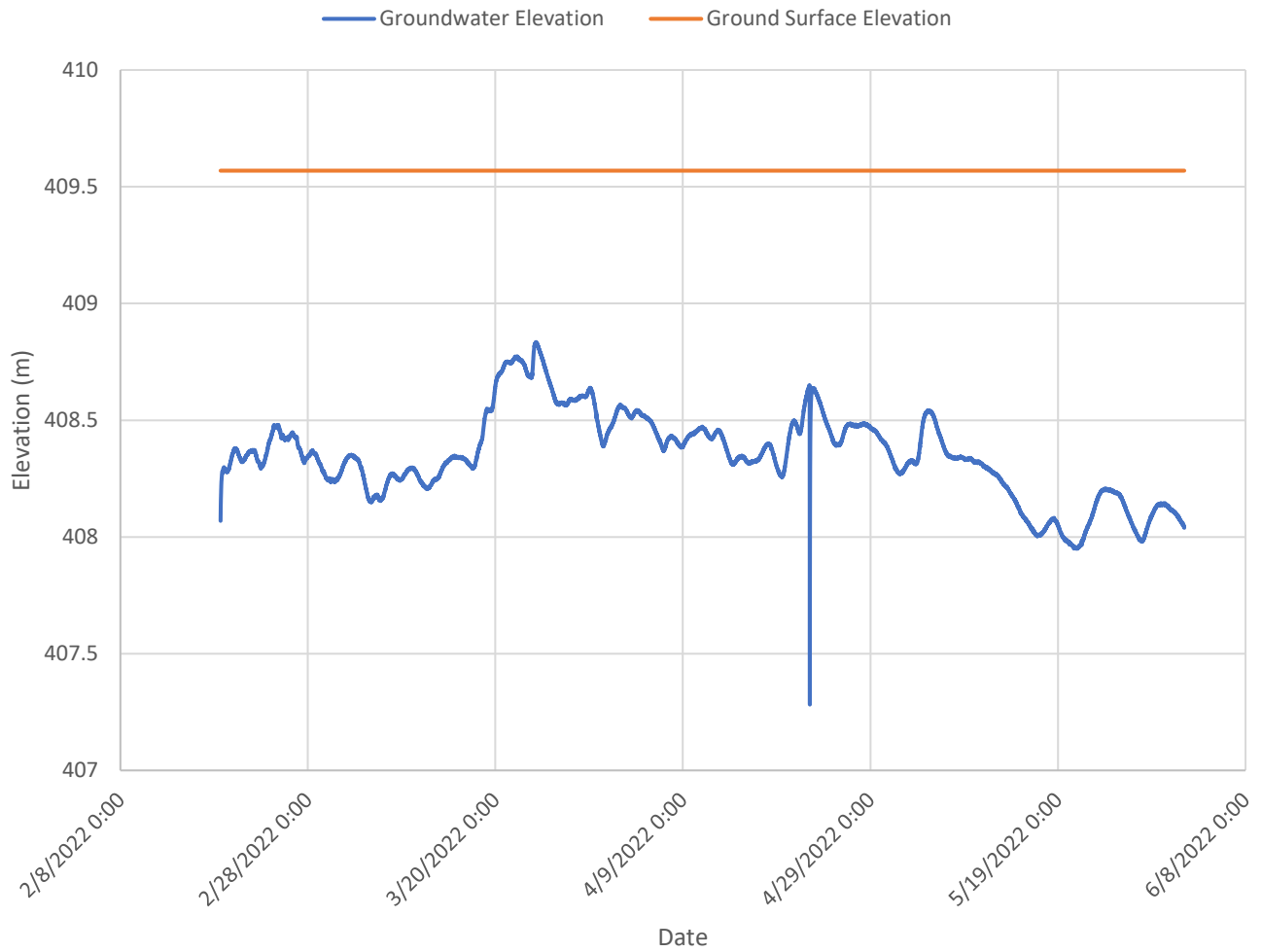
MW 401 (Elevation of 420.91 metres) April 2022 to June 2022



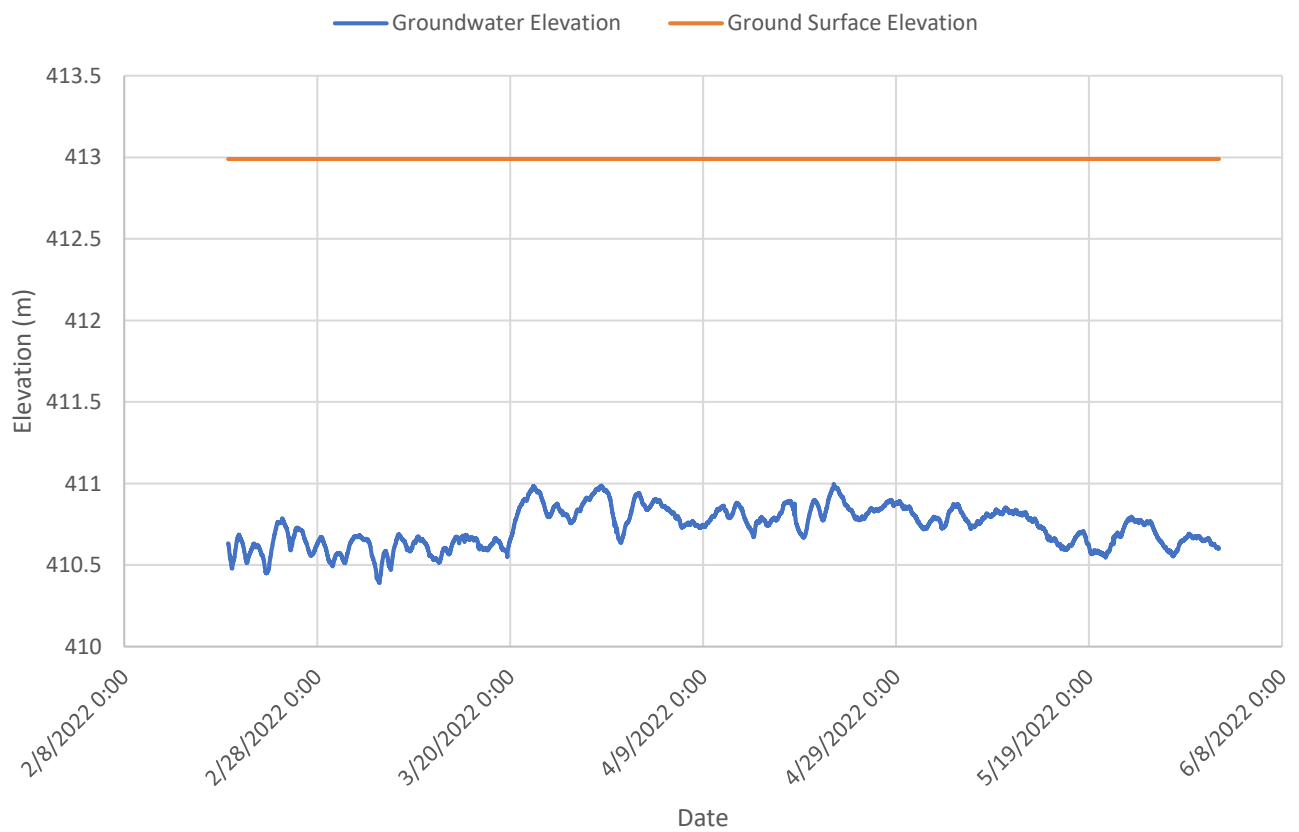
MW 401 Groundwater Elevation July 2022 to May 2023



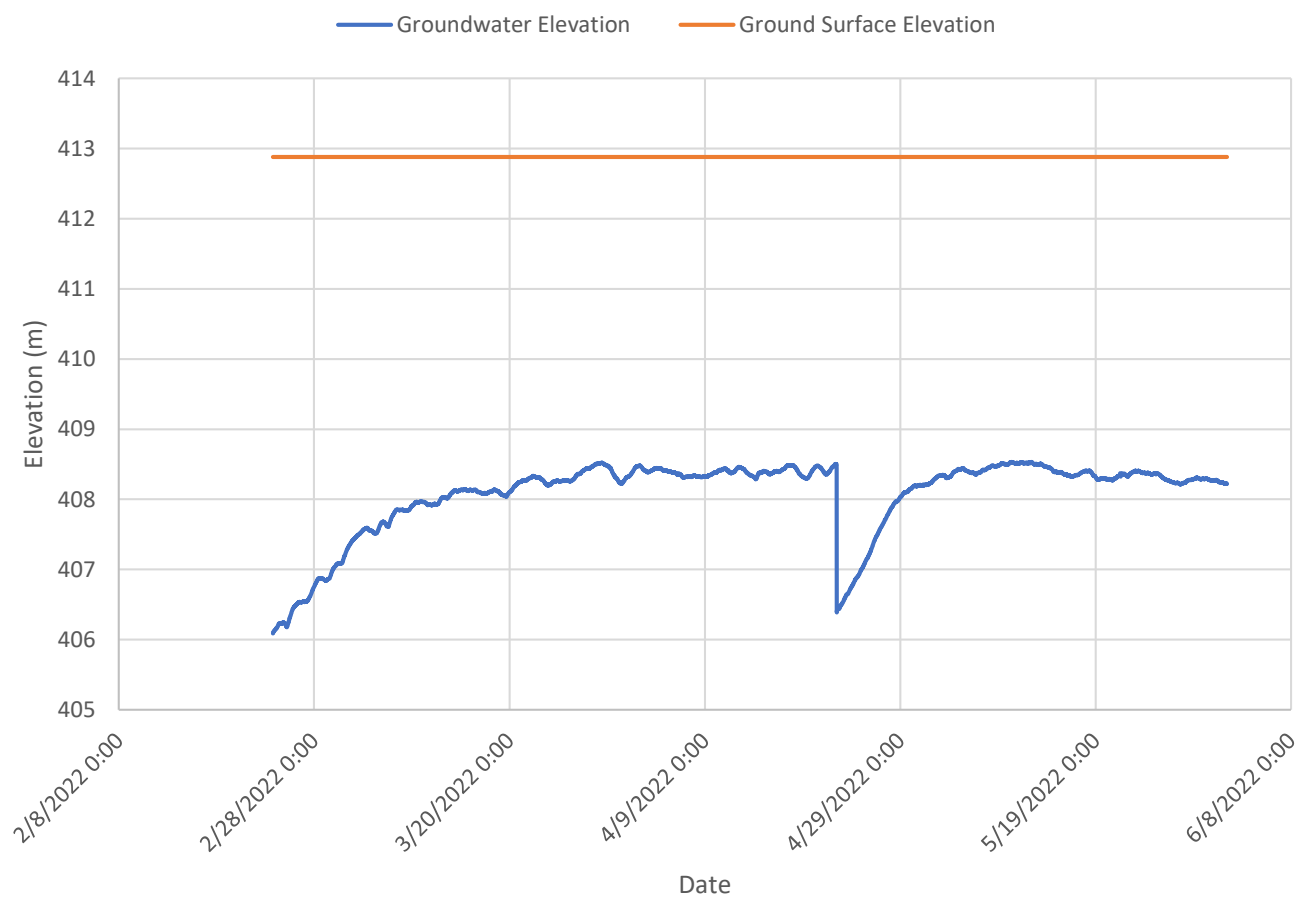
MW 204 (Elevation of 409.57 metres)
February 2022 to June 2022



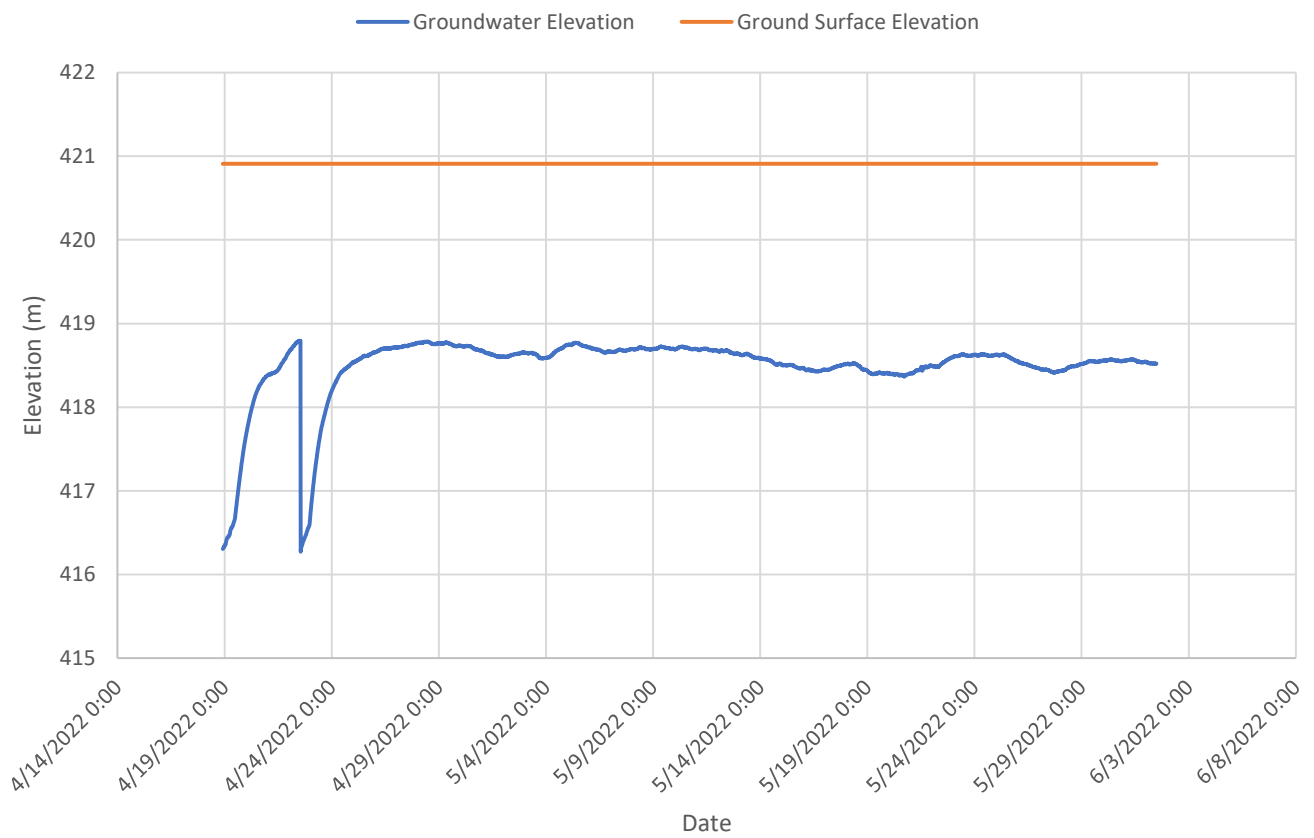
MW 205 (Elevation of 412.99 metres)
February 2022 to June 2022



MW 206 (Elevation of 412.88 metres)
February 2022 to June 2022



MW 401 (Elevation of 420.91 metres) April 2022 to June 2022



MW 304 (Elevation of 407.9 metres) February 2022 to June 2022

